Appendix D
Air Quality Worksheets

ESA

Santa Susana Field Laboratory
Air Quality Appendix Sections & List of Tables

Air Quality Appendix Sections

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Santa Susana Field Laboratory
Acronyms

Acronym	Definition
CH_4	Methane
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalents
EKCAPCD	Eastern Kern County Air Pollution Control District
EMFAC	EMission FACtors model developed by the California Air Resources Board.
GBVAB	Great Basin Valleys Air Basin
gr	grams
Haz	Hazardous Waste Disposal Location
HP	Horse Power
kWh	kilowatt hour
lbs	pounds
LF	Load Factor
M&M	Monitoring and Maintenance
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MT	Metric Tons
MWh	megowatt hour
N_2O	Nitrogen dioxide
NEPAB	Northeast Plateau Air Basin
Non-Haz	Non-Hazardous Waste Disposal Location
NOP	Notice of Preparation
NOx	Nitrogen oxides
PM_{10}	Particulate matter with a diameter of 10 microns or smaller
$PM_{2.5}$	Particulate matter with a diameter of 2.5 microns or smaller
Rad	Radiological Waste Disposal Location
ROC	Reactive Organic Compounds
RP	Responsible Party
SACVAB	Sacramento Valley Air Basin
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCCAB	South Central Coast Air Basin
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Controld District
SOx	Sulfur oxides
SSAB	Salton Sea Air Basin
Tier 3	EPA Standard for emissions from offroad vehicle engines.
VCAPCD	Ventura County Air Pollution Control District
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

Santa Susana Field Laboratory
Air Quality Appendix
Section 1
Factors Consistent with All sections

Santa Susana Field Laboratory
Existing Conditions

Offsite Exhaust Emission Factors

Table 1-1: Emission Factors for Commuter Trips

Emission Factors (gr/mile)

	Exhaust								Fugitive	
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**	**PM10**	**PM2.5**
Commuter Trips (offsite)	0.022	0.084	0.892	0.003	0.002	0.002	301.999	0.012	N/A	N/A
Commuter Trips (onsite)	0.056	0.111	1.356	0.003	0.005	0.004	556.107	0.022		
Emission Factors (lbs/mile)										
Commuter Trips (offsite)	4.80E-05	1.85E-04	0.002	6.68E-06	3.97E-06	3.66E-06	0.666	2.64E-05	7.948E-04	1.951E-04
Commuter Trips (onsite)	1.23E-04	2.46E-04	0.003	6.68E-06	1.08E-05	9.90E-06	1.226	4.86E-05	7.948E-04	1.951E-04

Assumptions
- 453.6 grams per pound

Sources
- Emission facotrs for vehicle exhaust were taken from EMFAC2014 model (v1.07). Aggregated speeds for offsite and 15 mph for onsite. (See "EMFAC2014 Emission Rates for Commuter Vehicles", Section 8 of Appendix D or Appendix E of this DEIR, for full EMFAC modeling details)

- Emission factors for offsite vehicle fugitive dust derived from AP42 - 13.2.1 - Paved Roads

Reintrained Road Dust Emission Factors (Paved Roads):

$E = k(sL)^{0.91} \times W^{1.02}$

$E_{PM10} = k*(0.1)^{0.91}*497^{1.02}$

$= 0.0022 * 0.123 * 2.936$

$= 7.95E\text{-}04$ PM10

$E_{PM2.5} = 0.00054 * 0.123 * 2.936$

$= 1.95E\text{-}04$ PM2.5

k	0.0022	PM10 - particle size multiplier (lbs/VMT)
k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
sL	0.1	road surace silt loading grams per square meter (g/m^2)
w	2.88	average

- Emission factors for onsite vehicle fugitive dust taken from Table 1-8

Note: For the purposes of this appendix, if a Table is listd as "*Table #-#* " (Table 1-1 for example) it assumes it is from this appendix. If the Table is from another source, the source is listed with the table. For example, " *Table 3.4 of Appendix D of the CalEEMod User Guide*"

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Exhaust Emission Factors

Table 1-2: Emission Factors for Offroad Equipment (Unadjusted Fleet)

	Emission Factors (g/bhp-hr)							
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
Rubber Tired Dozers	0.736	7.995	2.729	0.005	0.395	0.364	509.462	0.154
Concrete/Industrial Saws	0.620	4.432	3.620	0.006	0.333	0.333	568.300	0.055
Tractors/Loaders/Backhoes	0.538	5.142	3.811	0.005	0.396	0.364	511.346	0.154
Graders	0.398	5.663	1.459	0.005	0.184	0.169	511.696	0.154
Excavators	0.358	4.081	3.158	0.005	0.201	0.185	506.495	0.153
Scrapers	0.684	8.109	2.840	0.005	0.367	0.338	502.255	0.151
street sweepers	0.783	6.454	4.059	0.005	0.571	0.525	508.357	0.153
cranes	0.623	7.381	2.582	0.005	0.335	0.308	507.155	0.153
impact chisels	Electric/battery powered N/A for emissions							
Forklifts	0.723	6.222	4.023	0.005	0.520	0.479	505.583	0.153

Table 1-3: Emission Factors for Offroad Equipment (Adjusted to Tier 3 Compliance)

	Adjusted Emission Factors (g/bhp-hr)								HP	LF
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4		
Rubber Tired Dozers	0.120	2.320	2.600	0.005	0.088	0.088	509.462	0.154	247	0.40
Concrete/Industrial Saws	0.120	2.740	3.700	0.006	0.192	0.192	568.300	0.055	81	0.73
Tractors/Loaders/Backhoes	0.120	2.740	3.700	0.005	0.192	0.192	511.346	0.154	97	0.37
Graders	0.120	2.320	2.600	0.005	0.088	0.088	511.696	0.154	187	0.41
Excavators	0.120	2.320	3.700	0.005	0.192	0.192	506.495	0.153	158	0.38
Scrapers	0.120	2.320	2.600	0.005	0.088	0.088	502.255	0.151	367	0.48
street sweepers	0.120	2.740	3.700	0.005	0.192	0.192	508.357	0.153	64	0.46
cranes	0.120	2.320	2.600	0.005	0.088	0.088	507.155	0.153	236	0.29
impact chisels	Electric/battery powered N/A for emissions									
Forklifts	0.120	2.740	3.700	0.005	0.192	0.192	505.583	0.153	89	0.20

Table 1-4: Emission Factors for Onroad Vehicles (Onsite)

	Emission Factors (g/mile)							
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4/N_2O
Water Truck	0.751	19.116	4.646	0.016	0.082	0.078	3125.871	156.294
Haul Truck	0.751	19.116	4.646	0.016	0.082	0.078	3125.871	156.294
Onsite Worker Transport	0.056	0.111	1.356	0.003	0.005	0.004	556.107	27.805
	Emission Factors (g/min)							
Haul Truck	0.027	0.707	0.097	0.001	0.002	0.002	112.84	5.642

Onsite Exhaust Emission Factors

Sources:

- Equipment type taken from Table 3-16 in the PD.
- Quantity of each equipment type was provided by DTSC based on current onsite operations.
- Emission factors for unmitigated onsite construction equipment taken from Table 3.4 of Appendix D of the CalEEMod user guide (BREEZE software, a Division of Trinity Consultants, 2016). 2016 emission factors were used as a conservative estimate for all years as equipment is not anticipated to be changed out unless it breaks. Therefore even though construction could last for 18 years, there is the potential that the same equipment in use at the beginning of the project would be in use at the end of the project.
- Emissions for water truck and Haul trucks taken from EMFAC 2014 for Ventura County for Heavy Heavy Duty Trucks at 15 mph. (See "EMFAC2014 Emission Rates for Haul Trucks", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Emission factors for onsite worker transport trips are from EMFAC2014 for Ventura County for LDA vehicles traveling 15 mph. (See (See "EMFAC2014 Emission Rates for Commuter Vehicles", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Horsepower and load factors taken as the average for each equipment type from Table 3.3 of Appendix D of the CalEEMod User's Guide (BREEZE software, a Division of Trinity Consultants, 2016).
- Tier 4 final Emissions are taken from Table 3.5 of Appendix D of the CalEEMod User Guide (BREEZE software, a Division of Trinity Consultants, 2016). Tier 4 is an EPA standard for emissions of offroad vehicle engines.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Exhaust Emissions

Table 1-5: Emissions Per Offroad Vehicle Type per 8 Hour Work Day

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
				(lbs/day) per Excavation Site				
Rubber Tired Dozers	0.209	4.043	4.531	0.009	0.153	0.153	887.739	0.268
Concrete/Industrial Saws	0.125	2.857	3.859	0.006	0.200	0.200	592.656	0.057
Tractors/Loaders/Backhoes	0.076	1.734	2.342	0.003	0.122	0.122	323.672	0.097
Graders	0.162	3.137	3.516	0.007	0.119	0.119	691.918	0.208
Excavators	0.127	2.457	3.918	0.005	0.203	0.203	536.331	0.162
Scrapers	0.373	7.208	8.078	0.016	0.273	0.273	1560.445	0.469
street sweepers	0.062	1.423	1.921	0.003	0.100	0.100	263.951	0.080
cranes	0.145	2.800	3.138	0.006	0.106	0.106	612.164	0.185
impact chisels	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
grapplers	0.142	2.750	4.385	0.006	0.228	0.228	600.088	0.181
Forklifts	0.038	0.860	1.162	0.002	0.060	0.060	158.719	0.048
Water Truck	0.149	3.793	0.922	0.003	0.016	0.015	620.212	31.011

Equations

- Daily emssions = (Emission Factor X Horse power X Load Factor X Quantity X Hours per day) / 453.6
  - 453.6 grams per pound
  - Emission Factor, Horse Power, and Load Factor from Table 1-3.
  - 8 Hour work day (8 hour of equipment usage)
  - Quantity is assumed to be 1 for the purposes of daily emissions in Table 1-5.
- Daily emissions (Water truck) = (Emission Factor X Miles) / 453.6
  - Assumes water trucks at 90 miles per day for onsite operations (15 mph for 6 hrs per day)
- Impact Chisels are electric and therefore do not have quantifiable onsite emissions.

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Initial Clean Up Equipment Assumptions

Table 1-6: Initial Clean-up Equipment Assumptions

Equipment List	Area IV	O_2 Plant	DOE Demo	Boeing TTF	DOE RMHF/ HWMF
Rubber Tired Dozers	1.5	1.5	0	1	2
Concrete/Industrial Saws	0	0	0.1	0	0
Tractors/Loaders/Backhoes	2.5	2.5	3	1.5	3
Graders	0.75	0.75	0	0.75	1.5
Excavators	1.00	1.00	2.00	1	2
Scrapers	0	0	0	0	0
cranes	0	0	0.25	0	0
impact chisels	0	0	0.5	0	0
grapplers	0	0	0	0	0
Forklifts	1	1	0	1	2
Water Truck	1	1	1	1	2
Haul Trucks (3 years)	76	9	3	3	5
Workers	10	10	23	8	20

* All Boeing activities removed from Initial Clean-up Activities

Table 1-7: Scaling for daily truck trips

	Years	Total Trucks	Haul Trucks	% of Total	Scale to 96 trucks per day	
Area IV	3	34247	44	0.795998	76	69% of the trips are hazardous, the remainder are radiological.
O2 Plant	3	3695	5	0.085882	9	80% of the trips are hazardous the remainder are non-hazardous.
DOE - Demo	2	788	2	0.027473	3	
Boeing - Demo	1	752	0	0	0	No longer part of Initial Clean-up. Truck trips zeroed out to maintain 96 trucks per day over the whole site
TTF - Boeing	0.5	26	2	0.036259	3	
Post Closure - DOE	30	0	0	0	0	
Post Closure - NASA	30	0	0	0	0	
Totals	30	0	55		96	

Sources:
- Equipment type, number of workers, and total haul trucks taken from Table 3-16 in the PD.
- Quantity of each equipment type was provided by DTSC based on current onsite operations.

Equations
- Haul trucks for each program were scaled from the average daily truck trips to a maximum of 96 daily trips for the whole site.
  Air Quality Thresholds are based on daily emissions, therefore 96 haul trucks were used as that is the maximum number of trucks that will access the site per day.
- Average daily trips for the initial projects is equal to 53. Scaled to have a minimum of one truck per day for each phase. (See Table 1-7).
  Haul trucks per day for the initial clean-up were determined by dividing the total number of trucks by the number of years of the activity then by 260 days per year.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Fugitive Dust Emission Factors

Table 1-8 Emission Factors For Fugitive Dust

	PM10	PM2.5	Units
Scraper/Grader	1.543	0.167	lbs/VMT
Dozer/Excavator	0.753	0.414	lbs/hr
Truck Loading	1.11E-04	1.68E-05	lbs/ton
Mechanical Demolition	1.11E-04	1.68E-05	lbs/ton
Debris Loading	0.020	0.003	lbs/ton
Unpaved Road Haul	0.876	0.088	lbs/VMT
Paved Road - Haul	0.007	0.002	lbs/VMT
Paved Road Commute	7.9E-04	2.0E-04	lbs/VMT

Fugitive emissions from scrapers/graders:

PM_{10} = $(0.051 \times (S)^{2.0}) \times F_{PM10}$
= $(0.051 \times (7.1)^{2.0}) \times 0.6$
= 1.543 lbs/VMT

$PM_{2.5}$ = $(0.04 \times (S)^{2.5}) \times F_{PM2.5}$
= $(0.04 \times (7.1)^{2.5}) \times 0.031$
= 0.167 lbs/VMT

S = mean vehicle speed (mph) Default = 7.1
F_{PM10} = PM_{10} scaling factor default of 0.6
$F_{PM2.5}$ = $PM_{2.5}$ scaling factor default of 0.031

Fugitive emissions from Dozers and Excavators:

PM_{10} = $((C_{PM15} \times s^{1.5})/M^{1.4}) \times F_{PM10}$
= $((1 \times 6.9^{1.5})/7.9^{1.4}) \times 0.75$
= 0.753 lbs/hr

$PM_{2.5}$ = $((5.7 \times 6.9^{1.2})/7.9^{1.3}) \times 0.105$

C_{PM15} = arbitary coefficient used by AP-42 = 1
s = material silt content = 6.9 %
M = material moisture content = 7.9%
F_{PM10} = PM_{10} scaling factor default of 0.75
$F_{PM2.5}$ = $PM_{2.5}$ scaling factor default of 0.105

Fugitive emissions from truck loading

PM_{10} = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.35 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.11E-04 lbs/ton

$PM_{2.5}$ = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.053 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.68E-05 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.82
M = Material moisture content = 12%

Fugitive Emissions from Mechanical Demolition

PM_{10} = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.35 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.11E-04 lbs/ton

$PM_{2.5}$ = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.053 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.68E-05 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.82
M = Material moisture content = 12%

Fugitive Emissions from Debris Loading

PM_{10} = $k \times EF_{L\text{-}TSP}$
= 0.35×0.058
= 0.020 lbs/ton

$PM_{2.5}$ = $k \times EF_{L\text{-}TSP}$
= 0.053×0.058
= 0.003 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
$EF_{L\text{-}TSP}$ = default value = 0.058 lbs/ton

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Fugitive Emissions

Equations

- Emissons for graders and scrapers = Emission factor x(((Acres / blade width of 12 ft) x 43,560 sqft per acre) / 5,280 ft per mile)
  - Acres are based on table provided on page 8 of CalEEMod Appendix A. (BREEZE software, a Division of Trinity Consultants, 2016).

    scrapers 1 acers/8hr day (conservately uses 1 acre for both because of the type of activities)
  - Emissions include a 63% reduction for required fugitive dust control measures based on VCAPCD regulations and a 69% reduction based on mitigation.
  - Emission factor taken from Table 1-8.
- Emissions for dozers/excavators = # equipment x hours of operation x emission factor
  - Number of dozers and excavators taken from Table 1-6.
  - 8 hours per day
  - Emission factor taken from Table 1-8.
- Emissions for truck loading (soils) = emission factor * tons of material
  - Emission factor taken from Table 1-8.
- Emissions for Excavation truck loading = EF x Tons
  - Tons of soil = tons per truck (Assumed 23) times 2 times the number of trucks (From Table 1-6). Twice the number of trucks is used to account for potential import and unloading of backfill.
- Emissions for Mechanical demolition and debris loading = Emission Factor (lbs/ton) X tons of debris
  - Assumes 23 tons per truck
  - Emission factor taken from Table 1-8.
  - Tons of soil = tons per truck (Assumed 23) times the number of trucks (From Table 1-6).
- Emissions for fugitive dust from unpaved or paved roads = Number of Miles x Number of Trucks x Emission Factor for PM10/PM2.5
  - Equations and constants for unpaved roads taken from EPA's AP-42 13.2.2 Unpaved Roads
  - Equations and constants for Paved roads taken from AP42 - 13.2.1 - Paved Roads
  - Emissions for unpaved roads include a 63% reduction for required fugitive dust control measures based on VCAPCD regulations and a 69% reduction based on mitigation.
  - Assumes 3/4 of haul routes are paved.
  - Emission factor taken from Table 1-8.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Reintrained Road Dust

Reintrained Road Dust for haul trucks (onsite - unpaved)

	E=k(s/12)^a(W/3)^b						E	?	size-specific emission factor (lbs/VMT)
E_{PM10} =	1.5*(6.9/12)^0.9*(W/3)^0.45						s	6.9	surface material silt content (%)
=	1.5	*	0.607716545	*	2.5963811		W	25	mean vehicle weight (tons) - Haul Trucks
=	2.367	lbs/VMT	(Uncontrolled) - Haul					2.88	mean vehicle weight (tons) - Commute Vehicle
=	0.876	lbs/VMT	(63% reduction from watering 3x per day) - Haul				k	1.5	constant (lb/VMT)
=	1.5	*	0.607716545	*			a	0.9	constant
=	0.088	lbs/VMT	(63% reduction from watering 3x per day) - Haul				k	0.15	constant (lb/VMT)
							a	0.9	constant

Reintrained Road Dust Emission Factors (Paved Roads):

E =	k(sL)^0.91xW^1.02						k	0.0022	PM10 - particle size multiplier (lbs/VMT)
E_{PM10} =	k*(0.1)^0.91*497^1.02						k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
=	0.0022	*	0.123	*	26.662		sL	0.1	road surace silt loading (g/m^2)
=	0.007	PM10					w	25.00	average weight in tons of the vehicles traveling the road
$E_{PM2.5}$ =	0.00054	*	0.123	*	26.662				
=	0.002	PM2.5							

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Offsite Exhaust Emission Factors

Table 1-9: Mileage and Emission Factors for Haul Trucks (offsite)

Emission Factors (lbs/mile criteria pollutants; MT/mile GHGs)

		Exhaust								Fugitive	
Haul Truck Emission Factors		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	PM10	PM2.5
	< 55 mph	4.7E-04	0.013	0.002	3.5E-05	1.1E-04	1.1E-04	0.002	9.1E-05	0.007	0.002
	55 mph	2.0E-04	0.010	0.001	3.5E-05	1.2E-04	1.1E-04	0.001	7.4E-05		

Distance (by speed)		Total	<55	55
Boeing	Non-Haz	115	7.3	107.7
	Haz	291	7.3	283.7
	Rad	698	7.3	690.7
DOE	Non-Haz	125	7.3	117.7
	Haz	228	7.3	220.7
	Rad	337	7.3	329.7
NASA	Non-Haz	98	7.3	90.7
	Haz	324	7.3	316.7
	Rad	698	7.3	690.7

Reintrained Road Dust Emission Factors:

$E = k(sL)^{0.91} \times W^{1.02}$

E_{PM10} = k*(0.1)^0.91*497^1.02

= 0.0022 * 0.123 * 26.662

= 0.007 PM10

$E_{PM2.5}$ = 0.00054 * 0.123 * 26.662

= 0.002 PM2.5

E	?	particulate emissions (lbs/VMT)
k	0.0022	PM10 - particle size multiplier (lbs/VMT)
k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
sL	0.1	road surace silt loading grams per square meter (g/m^2)
w	25	average weight in tons of the vehicles traveling the road (tons)

Table 1-10: Weighted Emission Factors and Trucks per day for Initial Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	#/day	#/year	Activity
Boeing	Non-Haz	2.21E-04	0.011	9.36E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05			
	Haz	2.11E-04	0.011	8.86E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05	3	780	TTF
	Rad	2.07E-04	0.010	8.66E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.46E-05	0	0	Demolition
DOE	Non-Haz	2.20E-04	0.011	9.30E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05			
	Haz	2.13E-04	0.011	8.95E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.49E-05	55	14,934	Area IV & HWMF
	Rad	2.10E-04	0.010	8.81E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05	26	5,606	Area IV & RMHF
	Rad	2.10E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05	3	780	Demolition
NASA	Non-Haz	2.24E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05	1	260	Liquid O2
	Haz	2.10E-04	0.011	8.82E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05	8	2,080	Liquid O2
	Max	2.24E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05			

Sources
- Trucks per day taken from Table 1-6
- Emission Factors taken from EMFAC2014, maximum emissions from each air district potentially crossed for 55 mph, and weighted average by distance for SCCAB and SCAB for <55MPH.
- Distance assumptions for each waste type provided by DTSC.
- Fugitive road dust taken from USEPA AP42 13.2.2 - Paved Roads

Assumptions
- 453.6 grams per pound
- Weighted average determined by distance and speed for each RP.
- Daily trucks are based on 96 trucks per day.
- Annual truck trips are based on 96 trips per day for 260 days.
- HWMF has 412 trips per year and RMHF has 824 trips per year

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Assumes 23 workers per day
- Assumes 2 trips per worker
- Boeing activities have been removed from initial projects.
- [1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) divided by 453.6 (grams per pound) times miles total miles per day plus fugitive lbs per mile (Table 1-1) times number of miles for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive road dust (Table 1-9) times
		=	total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-6
- Number of Haul Trips per daty taken from Table 1-10
- Miles per waste disposal type taken from Table 1-9

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated
Overall Site Cleanup Equipment Assumptions

Table 1-11: Overall Cleanup Equipment Assumptions

Equipment List	Boeing	DOE	NASA	M&M
Rubber Tired Dozers	2	1.5	1.5	0
Concrete/Industrial Saws	0	0	0	0
Tractors/Loaders/Backhoes	3.5	2.5	2.5	0
Graders	2	1	***1***	***0***
Excavators	2.00	1.00	1.00	0.00
Scrapers	0	0	0	0
street sweepers	1	0.5	0.5	0
cranes	0	0	0	0
impact chisels	0	0	0	0
grapplers	0	0	0	0
Forklifts	2	1	1	0
Water Truck	3	1	1	0
Daily Haul Trucks (Air Quality)	32	32	32	0
Workers	150	50	50	72
Years of Operation	12	12	12	0
Non-Haz Soil Truks	17,420	73,260	9,650	0
Haz Soil Trucks	3,520	3,200	45,400	0
Rad Soil Trucks	980	5,940	1,700	0
Total Number of Trucks	21,920	82,400	56,750	0
Maximum Annual Trucks (GHG)	7,020	7,020	6,760	0

Sources
- Equipment lists provided by DTSC
- Hauling assumes 96 trucks per day, 32 for each RP.
- Total trucks by soil type taken from Table 3-4 of the Project Description

Assumptions
- Assumes equipment operates 8 hours per day. Water truck is 90 miles per day (15 mph * 6 hr/day)
- Assumes Boeing has 3 excavation sites per day, DOE has 1 excavation site per day, NASA has one excavation site per day
- Equipment usage is the number of equipment operating a full 8 hours. Therefore, 0.75 of an equipmment or 0.5 of a piece of equipment means operation of 6 or 4 hours per day respectively.
- Maximum annual trucks assumes 80 trucks per day for 260 days per year.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Offsite Exhaust Emission Factors

Table 1-12: Weighted Emission Factors and Trucks per day for Overall Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

										Max Truks	
		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	/day	/year
Boeing	Non-Haz	2.21E-04	0.011	9.36E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05	32	5,579
	Haz	2.11E-04	0.011	8.86E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05		1,127
	Rad	2.07E-04	0.010	8.66E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.46E-05		314
DOE	Non-Haz	2.20E-04	0.011	9.30E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05	32	6,241
	Haz	2.13E-04	0.011	8.95E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.49E-05		273
	Rad	2.10E-04	0.010	8.81E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05		506
NASA	Non-Haz	2.24E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05	32	1,149
	Haz	2.10E-04	0.011	8.82E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05		5,408
	Rad	2.07E-04	0.010	8.66E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.46E-05		203

Sources - Emission Factors used to determine weighted emissions taken from Table 1-9.

Assumptions
- 453.6 grams per pound
- Weighted average is based on distance and speed.
- Max Trucks per day assumes maximum potential milage based on number of trucks per waste type and length of trip, and 32 trips per day per RP
- Max trucks per year assumes 80 trucks per day (27 for DOE and Boeing, 26 for NASA) and is weighted to take into account the total amount of trucks per waste type (Table 1-11)

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Number of workers per day is taken from Table 1-11. For M&M each RP is assumed to have 3 workers.
- Assumes 2 trips per worker
- Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. Only the maximum for each air district is reported as a worst case scenario. 40 miles per trip was the average trip length assumed for workers.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).
- No haul trucks required for M&M activities.

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) times 453.6 (grams per pound) times miles total miles per day for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive
		=	road dust times total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-11
- Miles for haul truck trips taken from Table 1-9
- Number of haul truck trips taken from Table 1-12

Santa Susana Field Laboratory
Landfill Distance by Air District and Air Basin

Table 1-13 Distance in Air District (Miles)

		From Site	Ventura	Los Angeles	SBDO	Riverside	Riverside	Riverside	Los Angeles	Kern	Kings
Landfill	RP	(Miles)	VCAPCD	SCAQMD					Antelpoe Valley AQMD	SJAPCD	
Antelope Valley	Boeing, DOE	57	0.42	45.78					10.8		
Azusa Land Reclamation	NASA	54	0.42	53.58							
Chiquita Canyon Landfill	Boeing, DOE, NASA	36	0.42	35.58							
Clean Harbors Aragonite	Boeing	680	0.42	65.78	26.74						
Clean Harbors Buttonwillow	Boeing, DOE	125	0.42	67.58						57	
Clean Harbors Colafax	Boeing	1758	0.42	65.78	42.8	16	48.4	61.8			
Clean Harbors Deer Park	Boeing	1608	0.42	65.78	42.8	16	48.4	61.8			
Clean Harbors Deer Trail	Boeing	1089	0.42	27.49					32.92		
Clean Harbors Grassy Mountain	Boeing	698	0.42	65.78	26.74						
Clean Harbors Westmoreland	Boeing, DOE	228	0.42	65.78	42.8	16	64.4				
DeMenno Kerdon	NASA	53	0.42	52.58							
Energy Solutions	Boeing, DOE	690	0.42	26.74							
Equova Water Tech	Boeing, NASA	45	0.42	44.58							
Kettleman Hills Facility	Boeing	181	0.42	67.58						94.45	18.55
Kramer Metals	DOE	46.1	0.42	45.68							
La Paz County Landfill	NASA	324	0.42	65.78	42.8	16	48.4	71.89			
Lancaster Landfill and Recycling Center	Boeing	74	0.42	45.78					27.8		
McKittrick Wast Treatment Site	Boeing, DOE	138	0.42	67.58						71	
Mesquite Regional Landfill	DOE	263	0.42	65.78	42.8	16	64.4				
Nevada National Security Site	DOE	337	0.42	45.78					27.96		
Simi Valley Landfill and Recycling Center	Boeing	21.88	10.29	11.59							
Soil Safe	NASA	97	0.42	45.78					33.06		
Southwest Treatment Systems	Boeing	45	0.42	44.58							
Standard Industries	DOE	36	17.84	18.16							
US Ecology, Beatty	Boeing, NASA	291	0.42	45.78					27.96		
US Ecology, Richland (Through NV)	Boeing	1069	0.42	45.78					27.96		
US Ecology, Richland (Through CA)	Boeing	1069	0.42	67.58						94.45	26.5
US Ecology, Grandview	Boeing, DOE	897	0.42	27.49					32.92		

Santa Susana Field Laboratory
Landfill Distance by Air District and Air Basin

Table 1-13 Distance in Air District (Miles)

	SBDO	Imperial	Kern	Inyo	Fresno	Merced	Stanislaus	Joaquin	Sacramento	Yolo	Colusa	Glenn	Tehama	Shasta	Siskiyou	
Landfill	MDAQMD	Imperial County APCD	EKCAPCD	Great Basin Unified APCD	SJVAPCD				Sacramento	Yolo/Solano	Colusa	Glenn	Tehama	Shasta	Siskiyou	Outside CA
Antelope Valley																
Azusa Land Reclamation																
Chiquita Canyon Landfill																
Clean Harbors Aragonite	161.64															425.42
Clean Harbors Buttonwillow																
Clean Harbors Colafax	27.8															1495
Clean Harbors Deer Park	27.8															1345
Clean Harbors Deer Trail	165.29															862.88
Clean Harbors Grassy Mountain	162.93															442.13
Clean Harbors Westmoreland		38.6														
DeMenno Kerdon																
Energy Solutions	162.93															499.91
Equova Water Tech																
Kettleman Hills Facility																
Kramer Metals																
La Paz County Landfill	52.1															26.61
Lancaster Landfill and Recycling Center																
McKittrick Wast Treatment Site																
Mesquite Regional Landfill		73.6														
Nevada National Security Site			72	142.64												48.2
Simi Valley Landfill and Recycling Center																
Soil Safe	17.74															
Southwest Treatment Systems																
Standard Industries																
US Ecology, Beatty			72	131.4												13.44
US Ecology, Richland (Through NV)			72	156.57												766.27
US Ecology, Richland (Through CA)					66.19	32.3	28.07	49.85	34.2	28.84	33.86	28.55	39.94	61.7	65.74	410.81
US Ecology, Grandview	165.29															670.88

Santa Susana Field Laboratory
Landfill Distance by Air District and Air Basin

Table 1-14 Distance in Air Basin

Landfill	RP	From Site (Miles)	SCCAB	SCAB	SSAB	MDAB	SJVAB	GBVAB	SACVAB	NEPAB	Outside CA
Antelope Valley	Boeing, DOE	57	0.42	45.78	0	10.8	0	0	0	0	0
Azusa Land Reclamation	NASA	54	0.42	53.58	0	0	0	0	0	0	0
Chiquita Canyon Landfill	Boeing, DOE, NASA	36	0.42	35.58	0	0	0	0	0	0	0
Clean Harbors Aragonite	Boeing	680	0.42	92.52	0	161.64	0	0	0	0	425.42
Clean Harbors Buttonwillow	Boeing, DOE	125	0.42	67.58	0	0	57	0	0	0	0
Clean Harbors Colafax	Boeing	1758	0.42	124.58	48.4	89.6	0	0	0	0	1495
Clean Harbors Deer Park	Boeing	1608	0.42	124.58	48.4	89.6	0	0	0	0	1345
Clean Harbors Deer Trail	Boeing	1089	0.42	27.49	0	198.21	0	0	0	0	862.88
Clean Harbors Grassy Mountain	Boeing	698	0.42	92.52	0	162.93	0	0	0	0	442.13
Clean Harbors Westmoreland	Boeing, DOE	228	0.42	124.58	103	0	0	0	0	0	0
DeMenno Kerdon	NASA	53	0.42	52.58	0	0	0	0	0	0	0
Energy Solutions	Boeing, DOE	690	0.42	26.74	0	162.93	0	0	0	0	499.91
Equova Water Tech	Boeing, NASA	45	0.42	44.58	0	0	0	0	0	0	0
Kettleman Hills Facility	Boeing	181	0.42	67.58	0	0	113	0	0	0	0
Kramer Metals	DOE	46.1	0.42	45.68	0	0	0	0	0	0	0
La Paz County Landfill	NASA	324	0.42	124.58	48.4	123.99	0	0	0	0	26.61
Lancaster Landfill and Recycling Center	Boeing	74	0.42	45.78	0	27.8	0	0	0	0	0
McKittrick Wast Treatment Site	Boeing, DOE	139	0.42	67.58	0	0	71	0	0	0	0
Mesquite Regional Landfill	DOE	263	0.42	124.58	138	0	0	0	0	0	0
Nevada National Security Site	DOE	337	0.42	45.78	0	99.96	0	142.64	0	0	48.2
Simi Valley Landfill and Recycling Center	Boeing	21.88	10.29	11.59	0	0	0	0	0	0	0
Soil Safe	NASA	97	0.42	45.78	0	50.8	0	0	0	0	0
Southwest Treatment Systems	Boeing	45	0.42	44.58	0	0	0	0	0	0	0
Standard Industries	DOE	36	17.84	18.16	0	0	0	0	0	0	0
US Ecology, Beatty	Boeing, NASA	291	0.42	45.78	0	99.96	0	131.4	0	0	13.44
US Ecology, Richland (Through NV)	Boeing	1069	0.42	45.78	0	99.96	0	156.57	0	0	766.27
US Ecology, Richland (Through CA)	Boeing	1069	0.42	67.58			297.36	0	227.09	65.74	410.81
US Ecology, Grandview	Boeing, DOE	897	0.42	27.49	0	198.21	0	0	0	0	670.88

Santa Susana Field Laboratory
Air Quality Appendix
Section 2
Existing Conditions

Santa Susana Field Laboratory
Existing Conditions

Table 2-1: Existing Conditions - Boeing Commuter Emissions

					lbs/day							
		Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
Boeing	VCAPCD Offsite	31.32	60	1,879	0.090	0.347	3.696	0.013	1.501	0.373	1,251.138	0.050
	SCAQMD	8.68	60	521	0.025	0.096	1.024	0.003	0.416	0.103	346.739	0.014
	Onsite Travel	4.00	30	120	0.015	0.029	0.359	0.001	0.097	0.025	147.118	0.006
	total[1]	44.00	60	2,640	0.130	0.473	5.080	0.017	2.014	0.502	1,744.995	0.069
	VCAPCD	0.42	60	25	0.001	0.005	0.050	1.7E-04	0.020	0.005	16.778	0.001
	SCAQMD	39.58	60	2,375	0.114	0.439	4.671	0.016	1.897	0.472	1,581.099	0.063
	Onsite Travel	4.00	30	120	0.015	0.029	0.359	0.001	0.097	0.025	147.118	0.006
	total[1]	44	60	2,640	0.115	0.444	4.721	0.016	1.917	0.477	1,597.877	0.063
					tons/year						**MT/year**	
					ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
	VCAPCD	31.32	15,600	488,592	0.012	0.045	0.481	0.002	0.195	0.049	147.552	0.006
	SCAQMD	8.68	15,600	135,408	0.003	0.013	0.133	4.5E-04	0.054	0.013	40.892	0.002
	Onsite Travel	4.00	15,600	62,400	0.002	0.004	0.047	1.0E-04	0.013	0.003	17.350	0.001
	total[1]	44	15,600	686,400	0.017	0.062	0.660	0.002	0.262	0.065	205.794	0.008
	VCAPCD	0.42	15,600	6,552	1.6E-04	0.001	0.006	2.2E-05	0.003	0.001	1.979	0.000
	SCAQMD	39.58	15,600	617,448	0.015	0.057	0.607	0.002	0.247	0.061	186.465	0.007
	Onsite Travel	4.00	15,600	62,400	0.002	0.004	0.047	1.0E-04	0.013	0.003	17.350	0.001
	total[1]	44	15,600	686,400	0.017	0.062	0.660	0.002	0.262	0.065	205.794	0.008

*Totals may not add exactly due to rounding.

Assumptions

- Boeing has 15 workers and 15 contractors, DOE has 2 workers, and NASA has 6 workers. Existing onsite emissions are based on the operations occurring onsite at the time of the NOP. The NOP was completed before the NASA demolition of existing structures. The personnel onsite consists of one NASA civil servant and four NASA contractors for environmental investigation (NASA, 2016). The analysis assumed 6 workers as a worst case scenario based on the information provided at the time the analysis was conducted.

[1] - Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

- Average 4 mile onsite round trip in addition to the offsite.
- Emissions occur 260 days per year = 52 weeks x 5 days per week.
- Miles provided for offsite trips are one way miles and the analysis assumes two one way trips per employee (one to and one from the site)

Santa Susana Field Laboratory
Existing Conditions

Equations: (For daily and annual pollutant concentrations)

emission factors (lbs/mile) = emission factor in grams per mile (Table 1-1) divided by 453.6 (grams per pound)

Miles = miles per trip times number of trips.

pollutant calculations

lbs/day = emission factor in lbs/mile time number of miles. PM10 and PM2.5 include fugitive emissions from road travel.

tons/year = lbs/day multiplied by 260 days divided by 2000 lbs per ton.

MT/year = lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Note: Assumptions and equations are the same for all RPs and therefore are not repeated for each set of cacluations

Table 2-2: Existing Conditions - DOE Commuter Emissions

					lbs/day							
		Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
DOE	VCAPCD Offsite	31.32	4	125	0.006	0.023	0.246	0.001	0.100	0.025	83.409	0.003
	SCAQMD	8.68	4	35	0.002	0.006	0.068	2.3E-04	0.028	0.007	23.116	0.001
	Onsite Travel	4	2	8	3.8E-04	0.001	0.016	5.3E-05	0.006	0.002	5.326	2.1E-04
	total[1]	44.00	4	176	0.008	0.031	0.330	0.001	0.134	0.033	111.851	0.004
	VCAPCD	0.42	4	2	0.000	0.000	0.003	1.1E-05	0.001	3.3E-04	1.119	4.4E-05
	SCAQMD	39.58	4	158	0.008	0.029	0.311	0.001	0.126	0.031	105.407	0.004
	Onsite Travel	4	2	8	3.8E-04	0.001	0.016	5.3E-05	0.006	0.002	5.326	2.1E-04
	total[1]	44	4	176	0.008	0.030	0.315	0.001	0.128	0.032	106.525	0.004
					tons/year						**MT/year**	
					ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
	VCAPCD	31.32	1,040	32,573	0.001	0.003	0.032	1.1E-04	0.013	0.003	9.837	3.9E-04
	SCAQMD	8.68	1,040	9,027	2.2E-04	0.001	0.009	3.0E-05	0.004	0.001	2.726	1.1E-04
	Onsite Travel	4	1,040	4,160	5.0E-05	1.9E-04	0.002	6.9E-06	0.001	0.000	0.628	2.5E-05
	total[1]	44	1,040	45,760	0.001	0.004	0.043	1.5E-04	0.017	0.004	13.191	0.001
	VCAPCD	0.42	1,040	437	1.0E-05	4.0E-05	4.3E-04	1.5E-06	1.7E-04	4.3E-05	0.132	5.2E-06
	SCAQMD	39.58	1,040	41,163	0.001	0.004	0.040	1.4E-04	0.016	0.004	12.431	4.9E-04
	Onsite Travel	4	1,040	4,160	5.0E-05	1.9E-04	0.002	6.9E-06	0.001	0.000	0.628	2.5E-05
	total[1]	44	1,040	45,760	0.001	0.004	0.043	1.5E-04	0.017	0.004	13.191	0.001

*Totals may not add exactly due to rounding.

- Emissions occur 260 days per year = 52 weeks x 5 days per week.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Existing Conditions

Table 2-3: Existing Conditions - NASA Commuter Emissions

		Miles/trip	# trips	Miles	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
NASA	VCAPCD Offsite	31.32	12	376	0.018	0.069	0.739	0.003	0.300	0.075	250.228	0.010
	SCAQMD	8.68	12	104	0.005	0.019	0.205	0.001	0.083	0.021	69.348	0.003
	Onsite Travel	4	6	24	0.001	0.004	0.047	1.6E-04	0.019	0.005	15.979	0.001
	total[1]	44	30	504	0.024	0.093	0.991	0.003	0.403	0.100	335.554	0.013
	VCAPCD	0.42	12	5	2.4E-04	0.001	0.010	3.4E-05	0.004	0.001	3.356	0.000
	SCAQMD	39.58	12	475	0.023	0.088	0.934	0.003	0.379	0.094	316.220	0.013
	Onsite Travel	4	6	24	0.001	0.004	0.047	1.6E-04	0.019	0.005	15.979	0.001
	total[1]	44	12	528	0.023	0.089	0.944	0.003	0.383	0.095	319.575	0.013
					tons/year						MT/year	
					ROC/VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$	CO_2	CH_4
	VCAPCD	31.32	3,120	97,718	0.002	0.009	0.096	3.3E-04	0.039	0.010	29.510	0.001
	SCAQMD	8.68	3,120	27,082	0.001	0.003	0.027	9.0E-05	0.011	0.003	8.178	3.2E-04
	Onsite Travel	4	3,120	12,480	1.5E-04	0.001	0.006	2.1E-05	0.003	0.001	1.884	7.5E-05
	total[1]	44	7,800	343,200	0.003	0.012	0.129	4.4E-04	0.052	0.013	39.573	0.002
	VCAPCD	0.42	3,120	1,310	3.1E-05	0.000	0.001	4.4E-06	0.001	0.000	0.396	1.6E-05
	SCAQMD	39.58	3,120	123,490	0.003	0.011	0.121	4.1E-04	0.049	0.012	37.293	0.001
	Onsite Travel	4	3,120	12,480	1.5E-04	0.001	0.006	2.1E-05	0.003	0.001	1.884	7.5E-05
	total[1]	44	3,120	137,280	0.003	0.012	0.129	4.4E-04	0.052	0.013	39.573	0.002

*Totals may not add exactly due to rounding.

- Emissions occur 260 days per year = 52 weeks x 5 days per week.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Existing Conditions

Total Daily Emissions for Existing Conditions:

Table 2-4: Existing Conditions - Total Daily Mobile Emissions

	lbs/day							
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
Boeing	0.130	0.473	5.080	0.017	2.014	0.502	1,744.995	0.069
DOE	0.008	0.031	0.330	0.001	0.134	0.033	111.851	0.004
NASA	0.024	0.093	0.991	0.003	0.403	0.100	335.554	0.013
total	0.162	0.597	6.401	0.021	2.551	0.635	2,192.401	0.087

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Air Quality Appendix
Section 3
Unmitigated Initial Clean-up Programs

Santa Susana Field Laboratory

Initial Clean-up - Emissions Summary (Unmitigated)

Table 3-1: Sumamry of Initial Clean-up Emissions

	Lbs/Day					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Area IV						
Onsite						
Equipment	0.970	20.574	22.249	0.037	75.414	11.168
Haul	0.571	14.587	3.357	0.013	0.060	0.058
Crew	0.224	0.446	5.422	0.012	0.020	0.018
Onsite Total	1.765	35.607	31.029	0.063	75.494	11.244
Offsite						
Crew	0.038	0.148	1.574	0.005	0.639	0.159
Haul -VCAPCD	0.014	0.672	0.057	0.002	0.468	0.120
Haul - SCAQMD	3.232	160.225	13.593	0.537	111.609	28.642
Haul - Other	2.877	143.875	12.074	0.483	100.461	25.781
Offsite Total	6.161	304.919	27.297	1.028	213.177	54.702
Area IV Total						
VCAPCD	1.817	36.427	32.659	0.071	76.601	11.523
SCAQMD	5.035	195.980	46.195	0.605	187.742	40.044
All	7.925	340.527	58.325	1.091	288.671	65.946
Liquid Oxygen Plant						
Onsite						
Equipment	0.970	20.574	22.249	0.037	14.948	4.893
Haul	0.068	1.727	0.398	0.002	0.007	0.007
Crew	0.224	0.446	5.422	0.012	0.020	0.018
Onsite Total	1.262	22.747	28.069	0.051	14.975	4.918
Offsite						
Crew	0.038	0.148	1.574	0.005	0.639	0.159
Haul -VCAPCD	0.006	0.290	0.026	0.001	0.200	0.051
Haul - SCAQMD	0.443	22.075	1.861	0.074	15.400	3.952
Haul - Other	0.684	34.167	2.874	0.115	23.844	6.119
Offsite Total	1.172	56.680	6.334	0.195	40.083	10.281
Liquid Oxygen Plant Total						
VCAPCD	1.306	23.185	29.668	0.057	15.814	5.128
SCAQMD	1.743	44.970	31.503	0.131	31.014	9.029
All	2.433	79.427	34.403	0.246	55.058	15.199
Demolition - DOE						
Onsite						
Equipment	0.680	14.895	16.954	0.025	4.936	1.326
Haul	0.023	0.576	0.133	0.001	0.002	0.002
Crew	0.447	0.892	10.844	0.024	0.039	0.036
Onsite Total	1.150	16.363	27.931	0.050	4.977	1.364
Offsite						
Crew	0.088	0.340	3.619	0.012	1.470	0.366
Haul -VCAPCD	0.001	0.027	0.002	8.9E-05	0.018	0.018
Haul - SCAQMD	0.058	2.925	0.261	0.010	2.014	2.012
Haul - Other	0.366	18.582	1.659	0.062	12.792	12.783
Offsite Total	0.513	21.874	5.542	0.084	16.294	15.180
Demolition Total						
VCAPCD	1.239	16.730	31.553	0.063	6.466	1.748
SCAQMD	1.296	19.628	31.812	0.072	8.461	3.742
All	1.663	38.237	33.473	0.134	21.271	16.543

Santa Susana Field Laboratory
Initial Clean-up - Emissions Summary (Unmitigated)

Table 3-1: Sumamry of Initial Clean-up Emissions

	Lbs/Day					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
TTF - Boeing						
Onsite						
Equipment	0.790	16.818	17.642	0.030	8.220	3.520
Haul	0.023	0.576	0.133	0.001	0.002	0.002
Crew	0.224	0.446	5.422	0.012	0.020	0.018
Onsite Total	1.036	17.840	23.197	0.043	8.242	3.540
Offsite						
Crew	0.031	0.118	1.259	0.004	0.511	0.127
Haul -VCAPCD	0.001	0.026	0.002	8.9E-05	0.018	0.005
Haul - SCAQMD	0.158	7.856	0.662	0.026	5.480	1.406
Haul - Other	0.210	10.468	0.882	0.035	7.302	1.874
Offsite Total	0.399	18.468	2.805	0.066	13.312	3.412
TTF- Boeing Total						
VCAPCD	1.067	17.985	24.458	0.047	8.771	3.672
SCAQMD	1.224	25.814	25.118	0.073	14.233	5.073
All	1.435	36.308	26.002	0.108	21.554	6.952
RMHF/HWMF - DOE						
Onsite						
Equipment	1.579	33.636	35.284	0.060	15.537	6.946
Haul	0.038	0.960	0.221	0.001	0.004	0.004
Crew	0.447	0.892	10.844	0.024	0.039	0.036
Onsite Total	2.064	35.488	46.350	0.085	15.580	6.985
Offsite						
Crew	0.077	0.296	3.147	0.011	1.278	0.318
Haul -VCAPCD	0.001	0.044	0.004	1.5E-04	0.031	0.008
Haul - SCAQMD	0.169	8.192	0.716	0.027	5.667	1.454
Haul - Other	0.398	19.675	1.676	0.066	13.692	3.514
Offsite Total	0.061	3.037	0.255	0.010	2.120	0.544
RMHF/HWMF - DOE Total						
VCAPCD	2.142	35.828	49.501	0.096	16.889	7.311
SCAQMD	2.311	43.975	50.213	0.123	22.525	8.758
All	2.125	38.525	46.605	0.095	17.700	7.530
Project Total						
Onsite	7.276	128.045	156.575	0.292	119.268	28.051
Crew	0.273	1.050	11.173	0.038	4.537	1.129
Offsite (VCAPCD)	0.022	1.059	0.091	0.004	0.736	0.203
Offsite (SCAQMD)	4.060	201.273	17.093	0.674	140.170	37.467
Offsite (Other)	4.536	226.766	19.165	0.761	158.092	50.071
Totals						
VCAPCD	7.521	**129.961**	165.784	0.326	123.557	29.138
Threshold	25.00	25.00	N/A	N/A	N/A	N/A
Significant	No	**Yes**	No	No	No	No
SCAQMD	11.617	330.401	185.190	1.005	263.928	66.635
Threshold	55	55	550	150	150	55
Significant	No	**Yes**	**No**	No	**Yes**	**Yes**
All Air Districts						
All	15.582	533.023	198.808	1.674	404.254	112.170

*Totals may not add exactly due to rounding.

Sources: Emissions are taken from Tables 3-3 through 3-16.

Santa Susana Field Laboratory
Initial Clean-up - LST Emissions Summary (Unmitigated)

Table 3-2: LST Initial Clean-up Emissions Summary

LST Emissions Summary
(lbs/day)

	NOx	CO	PM10	PM2.5
Emissions	128	157	75	28
Threshold	131	5045	114	53
Significant?	No	No	**No**	**No**

Threshold Determination (2 acre site)

	NOx	NOx^2	CO	PM10	PM2.5	
500 meters	263	146	7,460	162	84	Source Receptor Area 6
400 meters	237	131	5,045	114	53	
300 meters	212	117	3,837	90	37	
200 meters	187	103	2,629	66	21	Source Receptor Area 6

LST's determined by max for each activity as the activities occur at different locations throughout the site.

Sources: LSTs are determined by summing the onsite emissions as reported in Table 3-1.

Assumptions NOx^2: The screening criteria for NOx were developed based on the 1-hour NO_2 CAAQS of 0.18 ppm. However, since the publication of the SCAQMD's guidance, the USEPA has promulgated a 1-hour NO_2 NAAQS of 0.100 ppm based on a 98th percentile value, which is more stringent than the CAAQS. In order to determine if Project emissions would result in an exceedance of the 1 hour NO_2 NAAQS, an approximated LST was estimated to evaluate the federal 1-hour NO_2 standard, as the SCAQMD significance threshold has not been updated to reflect this standard. Calculated by scaling the NO_2 LST for by the ratio of 1-hour NO_2 standards (federal/state)(i.e., 236 lb/day * (0.10/0.18) = 131 lb/day).

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Assumptions - Equipment usage is the number of equipment operating a full 8 hours. Therefore, 0.75 of an equipmment or 0.5 of a piece of equipment means operation of 6 or 4 hours per day respectively.

Initial Clean Up Emissions

Table 3-3 Initial Clean-up Daily Emissions

Maximum Daily Emissions (Lbs/day)

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
Area IV - DOE								
Exhaust	0.970	20.574	22.249	0.037	0.953	0.952	4106.964	32.063
Fugitive	-	-	-	-	74.461	10.216	-	-
Haul Trucks	0.571	14.587	3.357	0.013	0.060	0.058	2378.539	118.927
Crew	0.224	0.446	5.422	0.012	0.020	0.018	2224.430	111.221
Total	1.765	35.607	31.029	0.063	75.494	11.244	8709.934	262.211
Liquid Oxygen Plant - NASA								
Exhaust	0.970	20.574	22.249	0.037	0.953	0.952	4106.964	32.063
Fugitive	-	-	-	-	13.996	3.941	-	-
Haul Trucks	0.068	1.727	0.398	0.002	0.007	0.007	281.669	14.083
Crew	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition - DOE								
Exhaust	0.680	14.895	16.954	0.025	0.834	0.833	2876.196	31.679
Fugitive	-	-	-	-	4.102	0.492	-	-
Haul Trucks	0.023	0.576	0.133	0.001	0.002	0.002	93.890	4.694
Crew	0.447	0.892	10.844	0.024	0.039	0.036	4448.860	222.443
Total	1.150	16.363	27.931	0.050	4.977	1.364	7418.946	258.816
TTF - Boeing								
Exhaust	0.790	16.818	17.642	0.030	0.754	0.754	3339.423	31.831
Fugitive	-	-	-	-	7.465	2.766	-	-
Haul Trucks	0.023	0.576	0.133	0.001	0.002	0.002	93.890	4.694
Crew	0.224	0.446	5.422	0.012	0.020	0.018	2224.430	111.221
Total	1.036	17.840	23.197	0.043	8.242	3.540	5657.743	147.747
RMHF/HWMF - DOE								
Exhaust	1.579	33.636	35.284	0.060	1.509	1.508	6678.846	63.662
Fugitive	-	-	-	-	0.00	0.00	-	-
Haul Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew	0.224	0.446	5.422	0.012	0.039	0.018	2224.430	111.221
Total	0.224	0.446	5.422	0.012	0.039	0.018	2224.430	111.221

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Initial Clean Up Emissions

Table 3-4 Initial Clean-up Annual Emissions

	Annual Emissions (Tons/year)						(MT/year)	
Year 1	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
Area IV - DOE								
Exhaust	0.126	2.675	2.892	0.005	0.124	0.124	484.351	3.781
Fugitive	-	-	-	-	9.680	1.328	-	-
Haul Trucks	0.074	1.896	0.436	0.002	0.008	0.008	280.511	14.026
Crew	0.029	0.058	0.705	0.002	0.003	0.002	262.336	13.117
Total	0.229	4.629	4.034	0.008	9.814	1.462	1027.197	30.924
Liquid Oxygen Plant - NASA								
Exhaust	0.126	2.675	2.892	0.005	0.124	0.124	484.351	3.781
Fugitive	-	-	-	-	1.819	0.512	-	-
Haul Trucks	0.009	0.225	0.052	0.000	0.001	0.001	33.218	1.661
Crew	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
Demolition - DOE								
Exhaust	0.088	1.936	2.204	0.003	0.108	0.108	339.201	3.736
Fugitive	-	-	-	-	0.533	0.064	-	-
Haul Trucks	0.003	0.075	0.017	0.000	0.000	0.000	11.073	0.554
Crew	0.058	0.116	1.410	0.003	0.005	0.005	524.672	26.234
Total	0.149	2.127	3.631	0.007	0.647	0.177	874.946	30.523
TTF - Boeing								
Exhaust	0.103	2.186	2.293	0.004	0.098	0.098	393.832	3.754
Fugitive	-	-	-	-	0.970	0.360	-	-
Haul Trucks	0.003	0.075	0.017	0.000	0.000	0.000	11.073	0.554
Crew	0.029	0.058	0.705	0.002	0.003	0.002	262.336	13.117
Total	0.135	2.319	3.016	0.006	1.071	0.460	667.240	17.424
RMHF/HWMF - DOE								
Exhaust	0.205	4.373	4.587	0.008	0.196	0.196	787.663	7.508
Fugitive	-	-	-	-	0.00	0.00	-	-
Haul Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
Crew	0.029	0.058	0.705	0.002	0.005	0.002	262.336	13.117
Total	0.029	0.058	0.705	0.002	0.005	0.002	262.336	13.117

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Initial Clean Up Emissions

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-6.
- Daily emssions (Fugitive) (lbs/day) - Taken from Table 3-5 and 3-6 for initial clean-up projects.
- Daily emssions (haul trucks) (lbs/day) = [(Emission Factor$_{exhaust}$ X number of trips X Miles) x (Emission Factor$_{idle}$ X number of minutes X number of trucks)] / 453.6
  - Emission Factors from Table 1-4.
  - Number of Trips from Table 1-6
  - **4** miles/ round trip
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
- Daily emssions (crew (onsite worker transport)) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 1-6.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
- Total Daily Emissions for each criteria pollutant is the sume of the daily exhaust, fugitive, haul truck, and crew emissions.
- Annual emssions (Tons/year) = (Daily Emissions * Number of Days)/2000
  - Daily Emissions from Table 3-3.
  - 2,000.00 lbs/ton
  - 260 days per year
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623
  - Daily Emissions from Table 3-3.
  - 2,204.62 lbs per Metric Ton

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Fugitive Emissions

Table 3-5 Initial Clean-up Daily Fugitive Emissions

	Acres	#	Tons/truck	# Trucks	PM10	PM2.5
Maximum (lbs/day) - Area IV						
Scrapers/graders	0.75	N/A	N/A	N/A	0.295	0.032
Dozers/Excavators	N/A	2.50	N/A	N/A	5.578	3.066
Truck Loading	N/A	N/A	N/A	N/A	0.388	0.059
Total					***6.261***	***3.157***
Maximum (lbs/day) - Oxygen Plant						
Scrapers	0.75	N/A	N/A	N/A	0.295	0.032
Truck Loading	N/A	N/A	N/A	N/A	0.046	0.007
Total					***5.919***	***3.105***
Maximum (lbs/day) - Demolition - DOE						
Mechanic Demolition	N/A	N/A	23	3	0.008	0.001
Debris Loading	N/A	N/A	23	3	1.401	0.212
Total					***1.408***	***0.213***

*Totals may not add exactly due to rounding.

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Table 3-6 Initial Clean-up Fugitive Dust from Unpaved Roads

Maximum Daily Emissions (lbs/day)

	# Miles							
	Unpaved	Paved	# Trucks	PM10	PM2.5	# Vans	PM10	PM2.5
Area IV - DOE	1	3	76	68.200	7.059	1	0.001	0.000
Liquid Oxygen Plant - NASA	1	3	9	8.076	0.836	1	0.001	0.000
Demolition - DOE	1	3	3	2.692	0.279	2	0.002	0.000
TTF - Boeing	1	3	3	2.692	0.279	1	0.001	0.000
RMHF/HWMF - DOE	1	3	5	4.487	0.464	2	0.002	0.000

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Demolition Offsite Emissions - DOE

Table 3-7: Offsite Demolition - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	46	1,441	0.069	0.266	2.834	0.010	1.151	0.286
SCAQMD	8.68	46	399	0.019	0.074	0.785	0.003	0.319	0.079
total[1]	40	46	1,840	0.088	0.340	3.619	0.012	1.470	0.366
VCAPCD	0.42	46	19	0.001	0.004	0.038	1.3E-04	0.015	0.004
SCAQMD	39.58	46	1,821	0.087	0.337	3.581	0.012	1.454	0.362
total[1]	40	46	1,840	0.088	0.340	3.619	0.012	1.470	0.366
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	11,960	374,587	0.009	0.035	0.368	0.001	0.150	0.037
SCAQMD	8.68	11,960	103,813	0.002	0.010	0.102	3.5E-04	0.041	0.010
total[1]	40	11,960	478,400	0.011	0.044	0.471	0.002	0.191	0.048
VCAPCD	0.42	11,960	5,023	1.2E-04	0.000	0.005	1.7E-05	0.002	0.000
SCAQMD	39.58	11,960	473,377	0.011	0.044	0.466	0.002	0.189	0.047
total[1]	40	11,960	478,400	0.011	0.044	0.471	0.002	0.191	0.048

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

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Demolition Offsite Emissions - DOE

Table 3-8: Offsite Demolition - DOE Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	6	3	0.001	0.027	0.002	8.9E-05	0.018	0.018
SCAQMD	45.78	6	275	0.058	2.925	0.261	0.010	2.014	2.012
Other CA	242.6	6	1,456	0.306	15.502	1.384	0.051	10.672	10.664
Non-CA	48.2	6	289	0.061	3.080	0.275	0.010	2.120	2.119
Total	337	6	2022	0.425	21.534	1.923	0.071	14.824	14.814
Maximum Emissions by Air Basin									
SCCAB	0.42	6	3	0.001	0.027	0.002	8.9E-05	0.018	0.018
SCAB	45.78	6	275	0.058	2.925	0.261	0.010	2.014	2.012
SSAB	0.00	6	0	0.000	0.000	0.000	0.0E+00	0.000	0.000
MDAB	198.21	6	1,189	0.250	12.665	1.131	0.042	8.719	8.713
SJVAB	0.00	6	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	142.64	6	856	0.180	9.114	0.814	0.030	6.274	6.270
SACVAB	0.00	6	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0.00	6	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	6	4,025	0.845	42.868	3.828	0.142	29.511	29.491
				tons/year					
	Miles/trip	**# Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	1,560	655	6.9E-05	0.003	3.1E-04	1.2E-05	0.002	0.002
SCAQMD	45.78	1,560	71,417	0.007	0.380	0.034	0.001	0.262	0.262
Other CA	242.6	1,560	378,456	0.040	2.015	0.180	0.007	1.387	1.386
Non-CA	48.2	1,560	75,192	0.008	0.400	0.036	0.001	0.276	0.275
Total	337	1,560	525,720	0.055	2.799	0.250	0.009	1.927	1.926
Maximum Emissions by Air Basin									
SCCAB	0.42	1,560	655	6.9E-05	0.003	3.1E-04	1.2E-05	0.002	0.002
SCAB	45.78	1,560	71,417	7.5E-03	0.380	0.034	0.001	0.262	0.262
SSAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB	198.21	1,560	309,208	0.032	1.646	0.147	0.005	1.133	1.133
SJVAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	142.64	1,560	222,518	0.023	1.185	0.106	0.004	0.816	0.815
SACVAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	1,560	1,046,573	0.110	5.573	0.498	0.018	3.836	3.834

*Totals may not add exactly due to rounding.

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Area IV Offsite Emissions

Table 3-9: Aera IV Offsite - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	20	626	0.030	0.116	1.232	0.004	0.500	0.124
SCAQMD	8.68	20	174	0.008	0.032	0.341	0.001	0.139	0.034
total	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
VCAPCD	0.42	20	8	4.0E-04	0.002	0.017	5.6E-05	0.007	0.002
SCAQMD	39.58	20	792	0.038	0.146	1.557	0.005	0.632	0.157
Total	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
				tons/year					
	Miles/trip	**# trips**	**Miles**	**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	5,200	162,864	0.004	0.015	0.160	0.001	0.065	0.016
SCAQMD	8.68	5,200	45,136	0.001	0.004	0.044	1.5E-04	0.018	0.004
total	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021
VCAPCD	0.42	5,200	2,184	5.2E-05	2.0E-04	0.002	7.3E-06	0.001	0.000
SCAQMD	39.58	5,200	205,816	0.005	0.019	0.202	0.001	0.082	0.020
Total	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
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Area IV Offsite Emissions

Table 3-10: Aera IV Offsite - DOE Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	47	20	0.004	0.208	0.017	0.001	0.145	0.037
SCAQMD	45.78	47	2,157	0.453	22.650	1.901	0.076	15.815	4.059
Other CA	242.6	47	11,431	2.400	120.028	10.072	0.403	83.810	21.508
Other Non-CA	48.2	47	2,271	0.477	23.847	2.001	0.080	16.651	4.273
Total	337	47	15879.44	3.334	166.733	13.992	0.560	116.421	29.877
Hazardous Disposal Site									
VCAPCD	0.42	105	44	0.009	0.464	0.039	0.002	0.323	0.083
SCAQMD	124.58	105	13,066	2.779	137.575	11.692	0.461	95.794	24.583
Other CA	0	105	0	0.000	0.000	0.000	0.000	0.000	0.000
Other Non-CA	0	105	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	105	13,110	2.788	138.039	11.731	0.462	96.116	24.666
Maximum Emissions by Air Basin									
SCCAB	0.42	162	68	0.014	0.716	0.061	0.002	0.499	0.128
SCAB	124.58	162	20,182	4.293	212.501	18.059	0.712	147.966	37.972
SSAB	103	162	16,686	3.549	175.691	14.931	0.589	122.335	31.395
MDAB	198.21	162	32,110	6.830	338.095	28.733	1.133	235.417	60.415
SJVAB	57	162	9,234	1.964	97.227	8.263	0.326	67.700	17.374
GBVAB	142.64	162	23,108	4.915	243.307	20.678	0.815	169.416	43.477
SACVAB	0	162	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	162	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	162	108,683	23.117	1144.349	97.253	3.834	796.816	204.485
				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	12,251	5,146	0.001	0.027	0.002	9.1E-05	0.019	0.005
SCAQMD	45.78	12,251	560,860	0.059	2.944	0.247	0.010	2.056	0.528
Other CA	242.6	12,251	2,972,141	0.312	15.604	1.309	0.052	10.895	2.796
Other Non-CA	48.2	12,251	590,508	0.062	3.100	0.260	0.010	2.165	0.556
Total	337	12,251	4128654.4	0.433	21.675	1.819	0.073	15.135	3.884
Hazardous Disposal Site									
VCAPCD	0.42	27,269	11,453	0.001	0.060	0.005	2.0E-04	0.042	0.011
SCAQMD	124.58	27,269	3,397,147	0.361	17.885	1.520	0.060	12.453	3.196
Other CA	0	27,269	0	0.000	0.000	0.000	0.000	0.000	0.000
Other Non-CA	0	27,269	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	27,269	3,408,600	0.363	17.945	1.525	0.060	12.495	3.207
Maximum Emissions by Air Basin									
SCCAB	0.42	42,120	17,690	0.002	0.093	0.008	3.1E-04	0.065	0.017
SCAB	124.58	42,120	5,247,310	0.558	27.625	2.348	0.093	19.236	4.936
SSAB	103	42,120	4,338,360	0.461	22.840	1.941	0.077	15.904	4.081
MDAB	198.21	42,120	8,348,605	0.888	43.952	3.735	0.147	30.604	7.854
SJVAB	57	42,120	2,400,840	0.255	12.640	1.074	0.042	8.801	2.259
GBVAB	142.64	42,120	6,007,997	0.639	31.630	2.688	0.106	22.024	5.652
SACVAB	0	42,120	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	42,120	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	42,120	28,257,466	3.005	148.765	12.643	0.498	103.586	26.583

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
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Liquid Oxygen Plant Offsite Emissions

Table 3-11: Liquid Oxygen Plant Offsite - NASA Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	20	626	0.030	0.116	1.232	0.004	0.500	0.124
SCAQMD	8.68	20	174	0.008	0.032	0.341	0.001	0.139	0.034
total[1]	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
VCAPCD	0.42	20	8	0.000	0.002	0.017	5.6E-05	0.007	0.002
SCAQMD	39.58	20	792	0.038	0.146	1.557	0.005	0.632	0.157
total[1]	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
				tons/year					
				ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	5,200	162,864	0.004	0.015	0.160	0.001	0.065	0.016
SCAQMD	8.68	5,200	45,136	0.001	0.004	0.044	1.5E-04	0.018	0.004
total[1]	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021
VCAPCD	0.42	5,200	2,184	5.2E-05	2.0E-04	0.002	7.3E-06	0.001	0.000
SCAQMD	39.58	5,200	205,816	0.005	0.019	0.202	0.001	0.082	0.020
total[1]	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
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Liquid Oxygen Plant Offsite Emissions

Table 3-12: Liquid Oxygen Plant Offsite - NASA Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous Disposal Site									
VCAPCD	10.29	2	21	0.005	0.219	0.020	0.001	0.151	0.039
SCAQMD	53.58	2	107	0.024	1.141	0.102	0.004	0.786	0.202
Other CA	34.13	2	68	0.015	0.727	0.065	0.002	0.500	0.128
Other Non-CA	0	2	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	2	196	0.044	2.087	0.186	0.007	1.437	0.369
Hazardous Disposal Site									
VCAPCD	0.42	16	7	0.001	0.071	0.006	2.4E-04	0.049	0.013
SCAQMD	124.58	16	1,993	0.419	20.934	1.759	0.070	14.614	3.750
Other CA	172.39	16	2,758	0.580	28.968	2.434	0.097	20.222	5.190
Other Non-CA	26.61	16	426	0.089	4.471	0.376	0.015	3.121	0.801
Total	324	16	5,184	1.090	54.444	4.574	0.183	38.007	9.754
Maximum Emissions by Air Basin									
SCCAB	0.42	18	8	0.002	0.081	0.007	2.7E-04	0.055	0.014
SCAB	124.58	18	2,242	0.502	23.881	2.133	0.079	16.441	4.219
SSAB	48.4	18	871	0.195	9.278	0.829	0.031	6.387	1.639
MDAB	123.99	18	2,232	0.500	23.768	2.123	0.079	16.363	4.199
SJVAB	0	18	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	131.4	18	2,365	0.530	25.189	2.249	0.083	17.341	4.450
SACVAB	0	18	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	18	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	26.61	18	479	0.107	5.101	0.456	0.017	3.512	0.901
				tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous Disposal Site									
VCAPCD	10.29	520	5,351	0.001	0.028	0.003	9.4E-05	0.020	0.005
SCAQMD	53.58	520	27,862	0.003	0.148	0.013	4.9E-04	0.102	0.026
Other CA	34.13	520	17,748	0.002	0.095	0.008	3.1E-04	0.065	0.017
Other Non-CA	0	520	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	520	50960	0.006	0.271	0.024	0.001	0.187	0.048
Hazardous Disposal Site									
VCAPCD	0.42	4,160	1,747	1.8E-04	0.009	0.001	3.1E-05	0.006	0.002
SCAQMD	124.58	4,160	518,253	0.054	2.721	0.229	0.009	1.900	0.488
Other CA	172.39	4,160	717,142	0.075	3.766	0.316	0.013	2.629	0.675
Other Non-CA	26.61	4,160	110,698	0.012	0.581	0.049	0.002	0.406	0.104
Total	324	4,160	1,347,840	0.142	7.078	0.595	0.024	4.941	1.268
Maximum Emissions by Air Basin									
SCCAB	0.42	4,680	1,966	2.2E-04	0.010	0.001	3.5E-05	0.007	0.002
SCAB	124.58	4,680	583,034	0.065	3.105	0.277	0.010	2.137	0.548
SSAB	48.4	4,680	226,512	0.025	1.206	0.108	0.004	0.830	0.213
MDAB	123.99	4,680	580,273	0.065	3.090	0.276	0.010	2.127	0.546
SJVAB	0	4,680	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	131.4	4,680	614,952	0.069	3.275	0.292	0.011	2.254	0.579
SACVAB	0	4,680	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	4,680	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	26.61	4,680	124,535	0.014	0.663	0.059	0.002	0.457	0.117

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

TTF- Boeing

Table 3-13: TTF Offsite - Boeing Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	16	501	0.024	0.093	0.986	0.003	0.400	0.100
SCAQMD	8.68	16	139	0.007	0.026	0.273	0.001	0.111	0.028
total[1]	40	32	1,280	0.031	0.118	1.259	0.004	0.511	0.127
VCAPCD	0.42	16	7	0.000	0.001	0.013	4.5E-05	0.005	0.001
SCAQMD	39.58	16	633	0.030	0.117	1.246	0.004	0.506	0.126
total[1]	40	32	1,280	0.031	0.118	1.259	0.004	0.511	0.127
				tons/year					
				VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	4,160	130,291	0.003	0.012	0.128	4.4E-04	0.052	0.013
SCAQMD	8.68	4,160	36,109	0.001	0.003	0.036	1.2E-04	0.014	0.004
total[1]	40	8,320	332,800	0.004	0.015	0.164	0.001	0.066	0.017
VCAPCD	0.42	4,160	1,747	4.2E-05	1.6E-04	0.002	5.8E-06	0.001	0.000
SCAQMD	39.58	4,160	164,653	0.004	0.015	0.162	0.001	0.066	0.016
total[1]	40	8,320	332,800	0.004	0.015	0.164	0.001	0.066	0.017

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

TTF- Boeing

Table 3-14: TTF Offsite - Boeing Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	6	3	0.001	0.026	0.002	8.9E-05	0.018	0.005
SCAQMD	124.58	6	747	0.158	7.856	0.662	0.026	5.480	1.406
Other CA	166	6	996	0.210	10.468	0.882	0.035	7.302	1.874
Other Non-CA	0	6	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	6	1,746	0.368	18.350	1.546	0.062	12.801	3.285
Maximum Emissions by Air Basin									
SCCAB	10.29	6	62	0.013	0.649	0.055	0.002	0.453	0.116
SCAB	124.58	6	747	0.158	7.856	0.662	0.026	5.480	1.406
SSAB	48.40	6	290	0.061	3.052	0.257	0.010	2.129	0.546
MDAB	198.21	6	1,189	0.251	12.499	1.053	0.042	8.719	2.238
SJVAB	297.36	6	1,784	0.376	18.751	1.580	0.063	13.081	3.357
GBVAB	156.57	6	939	0.198	9.873	0.832	0.033	6.887	1.767
SACVAB	227.09	6	1,363	0.287	14.320	1.207	0.048	9.990	2.564
NEPAB	65.74	6	394	0.083	4.145	0.349	0.014	2.892	0.742
Outside CA	1495.00	6	8,970	1.891	94.271	7.944	0.316	65.764	16.877
				tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	6	3	6.9E-05	0.003	2.9E-04	1.2E-05	0.002	6.2E-04
SCAQMD	124.58	6	747	0.020	1.021	0.086	0.003	0.712	0.183
Other CA	166	6	996	0.027	1.361	0.115	0.005	0.949	0.244
Other Non-CA	0	6	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	6	1,746	0.048	2.385	0.201	0.008	1.664	0.427
Maximum Emissions by Air Basin									
SCCAB	10.29	6	62	6.9E-06	3.3E-04	2.9E-05	1.1E-06	0.059	0.015
SCAB	124.58	6	747	8.4E-05	0.004	3.6E-04	1.3E-05	0.712	0.183
SSAB	48.4	6	290	3.3E-05	0.002	1.4E-04	5.1E-06	0.277	0.071
MDAB	198.21	6	1,189	1.3E-04	0.006	0.001	2.1E-05	1.133	0.291
SJVAB	297.36	6	1,784	2.0E-04	0.010	0.001	3.1E-05	1.700	0.436
GBVAB	156.57	6	939	1.1E-04	0.005	4.5E-04	1.7E-05	0.895	0.230
SACVAB	227.09	6	1,363	1.5E-04	0.007	0.001	2.4E-05	1.299	0.333
NEPAB	65.74	6	394	4.4E-05	0.002	1.9E-04	7.0E-06	0.376	0.096
Outside CA	1495	6	8,970	0.001	0.048	0.004	1.6E-04	8.549	2.194

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

RMHF/ HWMF -DOE

Table 3-15: RMHF/HWMF Offsite - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	40	1,253	0.060	0.232	2.464	0.008	1.001	0.249
SCAQMD	8.68	40	347	0.017	0.064	0.683	0.002	0.277	0.069
total[1]	40	40	1,600	0.077	0.296	3.147	0.011	1.278	0.318
VCAPCD	0.42	40	17	0.001	0.003	0.033	1.1E-04	0.013	0.003
SCAQMD	39.58	40	1,583	0.076	0.293	3.114	0.011	1.265	0.315
total[1]	40	40	1,600	0.077	0.296	3.147	0.011	1.278	0.318
				tons/year					
				ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	2,600	81,432	0.008	0.030	0.320	0.001	0.130	0.032
SCAQMD	8.68	2,600	22,568	0.002	0.008	0.089	3.0E-04	0.036	0.009
total[1]	40	2,600	104,000	0.010	0.038	0.409	0.001	0.166	0.041
VCAPCD	0.42	2,600	1,092	1.0E-04	4.0E-04	0.004	1.5E-05	0.002	0.000
SCAQMD	39.58	2,600	102,908	0.010	0.038	0.405	0.001	0.164	0.041
total[1]	40	2,600	104,000	0.010	0.038	0.409	0.001	0.166	0.041

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

RMHF/ HWMF -DOE

Table 3-16: RMHF/HWMF Offsite - DOE Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	4	2	3.8E-04	0.018	0.002	5.9E-05	0.012	0.003
SCAQMD	124.58	4	498	0.112	5.307	0.474	0.018	3.653	0.937
Other CA	103	4	412	0.092	4.388	0.392	0.015	3.021	0.775
Other Non-CA	0	4	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	4	912	0.204	9.713	0.867	0.032	6.686	1.716
Radiological Disposal Site									
VCAPCD	0.42	6	3	0.001	0.026	0.002	8.9E-05	0.018	0.005
SCAQMD	45.78	6	275	0.058	2.885	0.242	0.010	2.014	0.517
Other CA	242.6	6	1,456	0.306	15.287	1.284	0.051	10.672	2.739
Other Non-CA	48.2	6	289	0.061	3.037	0.255	0.010	2.120	0.544
Total	337	6	2,022	0.425	21.236	1.784	0.071	14.824	3.804
Maximum Emissions by Air Basin									
SCCAB	0.42	10	4	0.001	0.044	0.004	1.5E-04	0.031	0.008
SCAB	124.58	10	1,246	0.265	13.117	1.115	0.044	9.134	2.344
SSAB	103	10	1,030	0.219	10.845	0.922	0.036	7.552	1.938
MDAB	198.21	10	1,982	0.422	20.870	1.774	0.070	14.532	3.729
SJVAB	57	10	570	0.121	6.002	0.510	0.020	4.179	1.072
GBVAB	142.64	10	1,426	0.303	15.019	1.276	0.050	10.458	2.684
SACVAB	0	10	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	10	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	10	6,709	1.427	70.639	6.003	0.237	49.186	12.623
				tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	26	11	4.9E-05	0.002	2.1E-04	7.7E-06	0.002	4.1E-04
SCAQMD	124.58	26	3,239	0.015	0.690	0.062	0.002	0.475	0.122
Other CA	103	26	2,678	0.012	0.570	0.051	0.002	0.393	0.101
Other Non-CA	0	26	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	26	5928	0.027	1.263	0.113	0.004	0.869	0.223
Radiological Disposal Site									
VCAPCD	0.42	496	208	6.9E-05	0.003	2.9E-04	1.2E-05	0.002	0.001
SCAQMD	45.78	496	22,707	0.008	0.375	0.032	0.001	0.262	0.067
Other CA	242.6	496	120,330	0.040	1.987	0.167	0.007	1.387	0.356
Other Non-CA	48.2	496	23,907	0.008	0.395	0.033	0.001	0.276	0.071
Total	337	496	167,152	0.055	2.761	0.232	0.009	1.927	0.495
Maximum Emissions by Air Basin									
SCCAB	0.42	522	219	0.047	2.308	0.196	0.008	0.025	0.024
SCAB	124.58	522	65,031	13.832	684.727	58.192	2.294	7.490	7.166
SSAB	103	522	53,766	11.436	566.117	48.112	1.897	6.192	5.924
MDAB	198.21	522	103,466	22.007	1089.418	92.584	3.650	11.916	11.401
SJVAB	57	522	29,754	6.329	313.288	26.625	1.050	3.427	3.279
GBVAB	142.64	522	74,458	15.837	783.990	66.628	2.626	8.576	8.205
SACVAB	0	522	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	522	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	522	350,199	74.487	3687.346	313.370	12.353	40.333	38.589

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Air Quality Appendix
Section 4
Unmitigated Overall Cleanup Emissions

Santa Susana Field Laboratory
Overall Cleanup - Emissions Summary - Unmitigated

Table 4-1: Sumamry of Program Emissions

	Lbs/Day					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Boeing						
Onsite						
Equipment	1.848	39.865	39.135	0.068	40.243	9.633
Haul	0.240	6.142	1.413	0.006	0.025	0.024
Crew	0.010	0.020	0.239	0.001	0.001	0.001
Onsite Total	2.098	46.027	40.788	0.074	40.269	9.658
Offsite						
Crew	0.576	2.218	23.605	0.080	9.585	2.385
Haul -VCAPCD	0.146	6.993	0.617	0.023	4.828	1.239
Haul - SCAQMD	1.681	83.794	7.061	0.281	58.456	15.001
Haul - Other	8.014	405.367	33.546	1.366	283.909	72.860
Offsite Total	10.418	498.372	64.829	1.751	356.778	91.485
Boeing Total						
VCAPCD	2.820	55.238	65.009	0.177	54.682	13.282
SCAQMD	4.355	132.039	71.454	0.435	108.309	27.044
All	12.515	544.399	105.617	1.825	397.047	101.143
DOE						
Onsite						
Equipment	1.011	21.358	23.128	0.039	35.835	7.088
Haul	0.240	6.142	1.413	0.006	0.025	0.024
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Onsite Total	1.254	27.507	24.622	0.045	35.861	7.113
Offsite						
Crew	0.192	0.739	7.868	0.027	3.195	0.795
Haul -VCAPCD	0.006	0.285	0.025	0.001	0.197	0.051
Haul - SCAQMD	1.696	83.951	7.135	0.281	58.455	15.001
Haul - Other	3.907	195.416	16.399	0.656	136.450	35.017
Offsite Total	5.801	280.392	31.427	0.965	198.297	50.863
DOE Total						
VCAPCD	1.452	28.531	32.515	0.073	39.253	7.958
SCAQMD	3.142	112.197	39.624	0.353	97.511	22.909
All	7.056	307.898	56.048	1.010	234.158	57.976
NASA						
Onsite						
Equipment	1.011	21.358	23.128	0.039	35.835	7.088
Haul	0.240	6.142	1.413	0.006	0.025	0.024
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Onsite Total	1.254	27.507	24.622	0.045	35.861	7.113
Offsite						
Crew	0.192	0.739	7.868	0.027	3.195	0.795
Haul -VCAPCD	0.148	7.013	0.626	0.023	4.828	1.239
Haul - SCAQMD	1.676	83.737	7.034	0.281	58.456	15.001
Haul - Other	8.014	405.367	33.546	1.366	283.909	72.860
Offsite Total	10.030	496.856	49.075	1.697	350.388	89.896
NASA Total						
VCAPCD	1.594	35.259	33.116	0.095	43.884	9.147
SCAQMD	3.122	111.983	39.524	0.353	97.512	22.909
All	11.284	524.363	73.697	1.742	386.249	97.008
Project Total						
Onsite	4.607	101.040	90.031	0.164	111.991	23.883
Offsite Commute	0.961	3.697	39.341	0.134	15.975	3.975
Offsite Haul (VCAPCD)	0.299	14.291	1.268	0.047	9.853	2.528
Offsite Haul (SCAQMD)	5.053	251.482	21.231	0.844	175.366	45.004
Haul (VC & SC total)	5.352	265.774	22.499	0.891	185.220	47.532
Offsite (Other Air Districts)	19.936	1006.150	83.492	3.388	704.268	180.738

*Totals may not add exactly due to rounding.

Sources: Emissions taken from Tables 4-6 through 4-18

Santa Susana Field Laboratory
Overall Cleanup - Emissions Summary - Unmitigated

Table 4-2: Sumamry of Maintenance & Monitoring Emissions

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
M&M (onsite)	0.005	0.009	0.115	2.6E-04	0.004	0.001
M&M Offsite (VCAPCD)[1]	0.217	0.834	8.872	0.030	3.602	0.896
M&M Offsite (SCAQMD)[1]	0.274	1.053	11.211	0.038	4.552	1.133
M&M Total[1]	0.281	1.074	11.445	0.039	4.605	1.146

[1] Offsite emissions for each air district represent the maximum emissions that could occur depending on where the workers are located. The M&M total is the onsite emissions plus the total commute emissions (based on total workers and a total of a 40 mile round trip regardless of the air district the miles occur within).

*Totals may not add exactly due to rounding.

Sources: Emissions taken from Table 4-19

Table 4-3: Project Emissions Summary

Lbs/Day

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
Project Totals						
VCAPCD						
Onsite	4.607	101.040	90.031	0.164	111.991	23.883
Offsite - Crew	0.752	2.894	30.804	0.105	12.508	3.112
Offsite - Haul	0.299	14.291	1.268	0.047	9.853	2.528
M&M	0.217	0.834	8.872	0.030	3.602	0.896
Total Emissions	5.874	119.060	130.974	0.346	137.955	30.420
Threshold	25	25	N/A	N/A	N/A	N/A
Significant	No	**Yes**	No	No	No	No
SCAQMD						
Onsite	4.607	101.040	90.031	0.164	111.991	23.883
Offsite - Crew	0.950	3.658	38.928	0.132	15.807	3.933
Offsite - Haul	5.053	251.482	21.231	0.844	175.366	45.004
M&M	0.274	1.053	11.211	0.038	4.552	1.133
Total Emissions	10.884	357.234	161.400	1.178	307.717	73.953
Threshold	55	55	550	150	150	55
Significant	No	**Yes**	No	No	**Yes**	**Yes**
All Air Districts						
Average	11	372	163	1	318	77

*Totals may not add exactly due to rounding.

Sources Tables 4-1 and 4-2

Santa Susana Field Laboratory
Overall Cleanup - LST Emissions Summary - Unmitigated

Table 4-4: LST Program Level Emissions Summary

(lbs/day)

	NOx	CO	PM10	PM2.5
Emissions	101.040	90.031	40.269	23.883
Threshold	131	5,045	114	53
Significant?	No	No	No	No

Threshold Determination (2 acre site)

	NOx	NOx^2	CO	PM10	PM2.5	
500 meters	263	146	7,460	162	84	Source Receptor Area 6
400 meters	237	131	5,045	114	53	
300 meters	212	117	3,837	90	37	
200 meters	187	103	2,629	66	21	Source Receptor Area 6
100 meters	156	86	1,497	33	9	Source Receptor Area 6
50 meters	143	79	903	17	5	Source Receptor Area 6
25 meters	147	81	644	7	4	Source Receptor Area 6
	25.3333333	1207.75	24	15.75		

LST's determined by max for each RP as the activities occur at different locations throughout the site.

Sources: LSTs are determined by summing the onsite emissions as reported in Table 4-1.

Assumptions NOx^2: The screening criteria for NOx were developed based on the 1-hour NO_2 CAAQS of 0.18 ppm. However, since the publication of the SCAQMD's guidance, the USEPA has promulgated a 1-hour NO_2 NAAQS of 0.100 ppm based on a 98th percentile value, which is more stringent than the CAAQS. In order to determine if Project emissions would result in an exceedance of the 1 hour NO_2 NAAQS, an approximated LST was estimated to evaluate the federal 1-hour NO_2 standard, as the SCAQMD significance threshold has not been updated to reflect this standard. Calculated by scaling the NO_2 LST for by the ratio of 1-hour NO_2 standards (federal/state)(i.e., 236 lb/day * (0.10/0.18) = 131 lb/day).

Santa Susana Field Laboratory
Overall Cleanup - LST Emissions Summary - Unmitigated

Table 4-5: Maximum Haul Emissions By Air Basin

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
		lbs/day					
SSAB		4.411	211.458	18.695	0.702	145.917	37.445
	ICAPCD	55	55	550	150	150	N/A
MDAB		8.433	**404.314**	35.738	1.342	**279.011**	71.600
	SCAQMD	55	55	550	150	150	55
	MDAQMD	137	137	548	137	82	65
	AVAQMD	137	137	548	137	82	82
	EKCAPCD	137	137	N/A	N/A	N/A	N/A
GBAVB		6	310	27	1	214	55
	GBUAPCD	N/A	N/A	N/A	N/A	N/A	N/A
SACVAB		6.468	309.107	27.433	1.025	**213.108**	54.688
	SMAQMD	65	65	N/A	N/A	80	80
	YSAQMD	N/A	N/A	CAAQS	N/A	80	N/A
	CCAPCD	N/A	N/A	N/A	N/A	N/A	N/A
	GCAPCD	N/A	N/A	N/A	N/A	N/A	N/A
	TCAPCD	25	25	N/A	N/A	80	N/A
	SHCAQMD	25	25	N/A	N/A	80	N/A
NEPAB		1.872	89.483	7.941	0.297	61.692	15.831
	SCAPCD	250	250	2500	250	250	250
Outside CA		43	2,059	182	7	1421	365
Exceed Threshold?		***No***	***Yes***	***No***	***No***	***Yes***	***No***
		Tons/year					
MDAB		0.838	41.025	3.535	0.137	**28.476**	7.308
	MDAQMD	*25*	*25*	*100*	*25*	*15*	*12*
	AVAQMD	*25*	*25*	*100*	*25*	*15*	*15*
SJVAB		0.645	31.605	2.721	0.106	**21.943**	5.631
	SJVPCP	*10*	*10*	*100*	*27*	*15*	*15*
SACVAB		*0.416*	*20.423*	*1.753*	*0.068*	*14.189*	*3.641*
	SMAQMD	N/A	N/A	N/A	N/A	15	15
	YSAQMD	10	10	N/A	N/A	N/A	N/A
NEPAB		*0.120*	*5.912*	*0.507*	*0.020*	*4.108*	*1.054*
	SCAPCD	40	40	100	40	15	N/A
Outside CA		4	178	15	1	123	32
Exceed Threshold?		***No***	***Yes***	***No***	***No***	***Yes***	***No***

*Totals may not add exactly due to rounding.

Sources: Emissions taken from Tables 4-6 through 4-18

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated
Overall Site Cleanup Emissions

Table 4-6: Overall Cleanup Daily Onsite Emissions

	Maximum Daily Emissions (Lbs/day)					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Boeing						
Exhaust	1.848	39.865	39.135	0.068	1.645	1.643
Fugitive	-	-	-	-	38.597	7.990
Haul Trucks	0.240	6.142	1.413	0.006	0.025	0.024
Crew	0.010	0.020	0.239	0.001	0.001	0.001
Total	2.098	46.027	40.788	0.074	40.269	9.658
DOE						
Exhaust	1.011	21.358	23.128	0.039	0.982	0.982
Fugitive	-	-	-	-	34.853	6.106
Haul Trucks	0.240	6.142	1.413	0.006	0.025	0.024
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Total	1.254	27.507	24.622	0.045	35.861	7.113
NASA						
Exhaust	1.011	21.358	23.128	0.039	0.982	0.982
Fugitive	-	-	-	-	34.853	6.106
Haul Trucks	0.240	6.142	1.413	0.006	0.025	0.024
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Total	1.254	27.507	24.622	0.045	35.861	7.113
Long-term Mitigation and Monitoring						
Exhaust	0.000	0.000	0.000	0.000	0.000	0.000
Fugitive	-	-	-	-	0.004	0.001
Haul Trucks	0.000	0.000	0.000	0.000	0.000	0.000
Crew	0.005	0.009	0.115	2.6E-04	4.1E-04	3.8E-04
Total	0.005	0.009	0.115	2.6E-04	0.004	0.001

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated
Overall Site Cleanup Emissions

Table 4-7: Overall Cleanup Annual Onsite Emissions

Annual Emissions (Tons/year)

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
Boeing						
Exhaust	0.240	5.182	5.088	0.009	0.214	0.214
Fugitive	-	-	-	-	5.018	1.039
Haul Trucks	0.031	0.798	0.184	0.001	0.003	0.003
Crew	0.001	0.003	0.031	6.9E-05	1.1E-04	1.0E-04
Total	0.273	5.983	5.302	0.010	5.235	1.256
DOE						
Exhaust	0.131	2.777	3.007	0.005	0.128	0.128
Fugitive	-	-	-	-	4.531	0.794
Haul Trucks	0.031	0.798	0.184	0.001	0.003	0.003
Crew	4.3E-04	0.001	0.010	2.3E-05	3.7E-05	3.4E-05
Total	0.163	3.576	3.201	0.006	4.662	0.925
NASA						
Exhaust	0.131	2.777	3.007	0.005	0.128	0.128
Fugitive	-	-	-	-	4.531	0.794
Haul Trucks	0.031	0.798	0.184	0.001	0.003	0.003
Crew	4.3E-04	0.001	0.010	2.3E-05	3.7E-05	3.4E-05
Total	0.163	3.576	3.201	0.006	4.662	0.925
Long-term Mitigation and Monitoring						
Exhaust	0.000	0.000	0.000	0.000	0.000	0.000
Fugitive	-	-	-	-	0.001	0.000
Haul Trucks	0.000	0.000	0.000	0.000	0.000	0.000
Crew	0.001	0.001	0.015	3.3E-05	5.4E-05	4.9E-05
Total	0.001	0.001	0.015	3.3E-05	0.001	0.000

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated
Overall Site Cleanup Emissions

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-11.
- Daily emssions (Fugitive) (lbs/day) - Taken from Tables 4-8 and 4-9.
- Daily emssions (haul trucks) (lbs/day) =
  [(Emission Factorexhaust X number of trips X Miles) x (Emission Factoridle X number of minutes X number of trucks)] / 453.6
  - Emission Factors from Table 1-4.
  - Number of Trips from Table 1-11
  - **4** miles/ round trip
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
- Daily emssions (crew (onsite worker transport)) (lbs/day) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 1-11.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
- Total Daily Emissions (lbs/day) for each criteria pollutant is the sume of the daily exhaust, fugitive, haul truck, and crew emissions.
- Annual emssions (Tons/year) = (Daily Emissions * Number of Days)/2000
  - Daily Emissions from Table 4-6.
  - 2,000.00 lbs/ton
  - 260 days per year
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623
  - Daily Emissions from Table 4-6.
  - 2,204.62 lbs per Metric Ton
  - 260 days per year

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated

Onsite Fugitive Emissions

Table 4-8: Overall Cleanup Daily Fugitive Emissions

	Acres	#	Tons/truck	# Trucks	PM10	PM2.5
Maximum (lbs/day) - Boeing						
Scrapers/graders	2	N/A	N/A	N/A	0.786	0.085
Dozers/Excavators	N/A	4.00	N/A	N/A	8.925	4.906
Truck Loading	N/A	N/A	N/A	N/A	0.163	0.025
Total					***9.874***	***5.015***
Maximum (lbs/day) - DOE						
Scrapers	1	N/A	N/A	N/A	0.393	0.042
Dozers/Excavators	N/A	2.50	N/A	N/A	5.578	3.066
Truck Loading	N/A	N/A	N/A	N/A	0.163	0.025
Total					***6.134***	***3.133***
Maximum (lbs/day) - NASA						
Scrapers	1	N/A	N/A	N/A	0.393	0.042
Dozers/Excavators	N/A	2.50	N/A	N/A	5.578	3.066
Truck Loading	N/A	N/A	N/A	N/A	0.163	0.025
Total					***6.134***	***3.133***

*Totals may not add exactly due to rounding.

Table 4-9 Overall Cleanup Fugitive Dust from Unpaved Roads
Maximum Daily Emissions (lbs/day)

	# Miles							
	Unpaved	Paved	# Trucks	PM10	PM2.5	# Vans	PM10	PM2.5
Boeing	1	3	32	28.716	2.972	10	0.008	0.002
DOE	1	3	32	28.716	2.972	4	0.003	0.001
NASA	1	3	32	28.716	2.972	4	0.003	0.001
Long-term Mitigation and Monitoring	1	3	0	0	0	5	0.004	0.001

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated

Onsite Fugitive Emissions

Equations

- Emissons for graders and scrapers = Emission factor x(((Acres / blade width of 12 ft) x 43,560 sqft per acre) / 5,280 ft per mile)
  - Acres are based on table provided on page 8 of CalEEMod Appendix A. (BREEZE software, a Division of Trinity Consultants, 2016).
    scrapers 1 acers/8hr day (conservately uses 1 acre for both because of the type of activities)
  - Emissions include a 63% reduction for required fugitive dust control measures based on VCAPCD regulations and a 69% reduction based on mitigation.
  - Emission factor taken from Table 1-8.
- Emissions for dozers/excavators = # equipment x hours of operation x emission factor
  - Number of dozers and excavators taken from Table 1-11.
  - 8 hours per day
  - Emission factor taken from Table 1-8.
- Emissions for truck loading (soils) = emission factor * tons of material
  - Emission factor taken from Table 1-8.
- Emissions include a 63% reduction for required fugitive dust control measures.
- Emissions for Excavation truck loading = EF x Tons
  - Tons of soil = tons per truck (Assumed 23) times 2 times the number of trucks (From Table 1-11). Twice the number of trucks is used to account for potential import and unloading of backfill.
- Emissions for Mechanical demolition and debris loading = Emission Factor (lbs/ton) X tons of debris
  - Assumes 23 tons per truck
  - Emission factor taken from Table 1-8.
  - Tons of soil = tons per truck (Assumed 23) times the number of trucks (From Table 1-11).
- Emissions for Pave and Unpaved Roads = Emission Factor (Table 1-8) times number of miles per vehicle times number of vehicles
  - Emissions for unpaved roads include a 63% reduction for required fugitive dust control measures based on VCAPCD regulations and a 69% reduction based on mitigation.
  - Assumes 3/4 of haul routes are paved.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Boeing

Table 4-10: Offsite Overall - Boeing Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	300	9,396	0.451	1.737	18.482	0.063	7.505	1.867
SCAQMD	8.68	300	2,604	0.125	0.481	5.122	0.017	2.080	0.517
total[1]	40	300	12,000	0.576	2.218	23.605	0.080	9.585	2.385
VCAPCD	0.42	300	126	0.006	0.023	0.248	0.001	0.101	0.025
SCAQMD	39.58	300	11,874	0.570	2.195	23.357	0.079	9.484	2.360
total[1]	40	300	12,000	0.576	2.218	23.605	0.080	9.585	2.385
				tons/year					
Worker Commute				**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
VCAPCD	31.32	78,000	2,442,960	0.059	0.226	2.403	0.008	0.976	0.243
SCAQMD	8.68	78,000	677,040	0.016	0.063	0.666	0.002	0.270	0.067
total[1]	40	78,000	3,120,000	0.075	0.288	3.069	0.010	1.246	0.310
VCAPCD	0.42	78,000	32,760	0.001	0.003	0.032	1.1E-04	0.013	0.003
SCAQMD	39.58	78,000	3,087,240	0.074	0.285	3.036	0.010	1.233	0.307
total[1]	40	78,000	3,120,000	0.075	0.288	3.069	0.010	1.246	0.310

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Boeing

Table 4-11: Offsite Overall - Boeing Haul Emissions (lbs/day)

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	64	659	0.146	6.993	0.617	0.023	4.828	1.239
SCAQMD	67.58	64	4,325	0.956	45.926	4.050	0.153	31.709	8.137
Other CA	37.13	64	2,376	0.525	25.233	2.225	0.084	17.422	4.471
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	115	64	7360	1.627	78.152	6.892	0.260	53.959	13.846
Hazardous									
VCAPCD	0.42	64	27	0.006	0.282	0.024	0.001	0.197	0.051
SCAQMD	124.58	64	7,973	1.681	83.794	7.061	0.281	58.456	15.001
Other CA	166	64	10,624	2.240	111.654	9.409	0.375	77.891	19.989
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	64	18624	3.927	195.731	16.495	0.657	136.543	35.041
Radiological Soil									
VCAPCD	0.42	64	27	0.006	0.281	0.023	0.001	0.197	0.051
SCAQMD	92.52	64	5,921	1.226	61.985	5.130	0.209	43.413	11.141
Other CA	162.93	64	10,428	2.158	109.157	9.033	0.368	76.451	19.620
Non-CA	442.13	64	28,296	5.856	296.210	24.513	0.998	207.458	53.241
Total	698	64	44672	9.246	467.633	38.699	1.576	327.519	84.052
Maximum Emissions									
VCAPCD				0.146	6.993	0.617	0.023	4.828	1.239
SCAQMD				1.681	83.794	7.061	0.281	58.456	15.001
Other CA				2.240	111.654	9.409	0.375	77.891	19.989
Non-CA				5.856	296.210	24.513	0.998	207.458	53.241
Total				9.923	498.652	41.600	1.677	348.633	89.470
Maximum Emissions by Air Basin									
SCCAB	10.29	64	659	0.146	6.993	0.617	0.023	4.828	1.239
SCAB	124.58	64	7,973	1.763	84.662	7.467	0.281	58.456	15.002
SSAB	48.40	64	3,098	0.685	32.892	2.901	0.109	22.710	5.828
MDAB	198.21	64	12,685	2.804	134.700	11.880	0.447	93.005	23.868
SJVAB	297.36	64	19,031	4.207	202.081	17.822	0.671	139.529	35.808
GBVAB	156.57	64	10,020	2.215	106.402	9.384	0.353	73.467	18.854
SACVAB	227.09	64	14,534	3.213	154.326	13.610	0.513	106.556	27.346
NEPAB	65.74	64	4,207	0.930	44.676	3.940	0.148	30.847	7.916
Outside CA	1495.00	64	95,680	21.151	1015.976	89.602	3.375	701.491	180.026

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Boeing

Table 4-12: Offsite Overall - Boeing Haul Emissions (tons/year)

				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	7,616	78,369	0.009	0.416	0.037	0.001	0.287	0.074
SCAQMD	67.58	7,616	514,689	0.057	2.733	0.241	0.009	1.887	0.484
Other CA	37.13	7,616	282,782	0.031	1.501	0.132	0.005	1.037	0.266
Non-CA	0	7,616	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	115	7,616	875,840	0.097	4.650	0.410	0.015	3.211	0.824
Hazardous									
VCAPCD	0.42	7,040	2,957	3.1E-04	0.016	0.001	5.2E-05	0.011	0.003
SCAQMD	124.58	7,040	877,043	0.092	4.609	0.388	0.015	3.215	0.825
Other CA	166	7,040	1,168,640	0.123	6.141	0.518	0.021	4.284	1.099
Non-CA	0	7,040	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	7,040	2,048,640	0.216	10.765	0.907	0.036	7.510	1.927
Radiological Soil									
VCAPCD	0.42	1,984	833	8.6E-05	0.004	3.6E-04	1.5E-05	0.003	0.001
SCAQMD	92.52	1,984	183,560	0.019	0.961	0.080	0.003	0.673	0.173
Other CA	162.93	1,984	323,253	0.033	1.692	0.140	0.006	1.185	0.304
Non-CA	442.13	1,984	877,186	0.091	4.591	0.380	0.015	3.216	0.825
Total	698	1,984	1,384,832	0.143	7.248	0.600	0.024	5.077	1.303
Total Tons/year									
VCAPCD				0.009	0.436	0.038	0.001	0.301	0.077
SCAQMD				0.168	8.302	0.709	0.028	5.775	1.482
Other CA				0.188	9.334	0.790	0.031	6.506	1.669
Non-CA				0.091	4.591	0.380	0.015	3.216	0.825
Total				0.456	22.664	1.917	0.076	15.797	4.054
Maximum Emissions by Air Basin									
SCCAB				0.009	0.436	0.038	0.001	0.301	0.077
SCAB				0.168	8.302	0.709	0.028	5.775	1.482
SSAB				0.077	3.748	0.323	0.013	2.600	0.667
Non-Hazardous	48.40	7,616	368,614	0.041	1.957	0.173	0.007	1.351	0.347
Hazardous	48.40	7,040	340,736	0.036	1.791	0.151	0.006	1.249	0.321
Radiological	0.00	1,984	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB				0.355	17.406	1.495	0.058	12.090	3.103
Non-Hazardous	198.21	7,616	1,509,567	0.167	8.015	0.707	0.027	5.534	1.420
Hazardous	198.21	7,040	1,395,398	0.147	7.333	0.618	0.025	5.115	1.313
Radiological	198.21	1,984	393,249	0.041	2.058	0.170	0.007	1.442	0.370
SJVAB				0.532	26.112	2.243	0.087	18.138	4.655
Non-Hazardous	297.36	7,616	2,264,694	0.250	12.024	1.060	0.040	8.302	2.130
Hazardous	297.36	7,040	2,093,414	0.221	11.000	0.927	0.037	7.674	1.969
Radiological	297.36	1,984	589,962	0.061	3.088	0.256	0.010	2.163	0.555
GBVAB				0.280	13.749	1.181	0.046	9.550	2.451
Non-Hazardous	156.57	7,616	1,192,437	0.132	6.331	0.558	0.021	4.371	1.122
Hazardous	156.57	7,040	1,102,253	0.116	5.792	0.488	0.019	4.041	1.037
Radiological	156.57	1,984	310,635	0.032	1.626	0.135	0.005	1.139	0.292
SACVAB				0.406	19.942	1.713	0.067	13.852	3.555
Non-Hazardous	227.09	7,616	1,729,517	0.191	9.182	0.810	0.031	6.340	1.627
Hazardous	227.09	7,040	1,598,714	0.169	8.401	0.708	0.028	5.861	1.504
Radiological	227.09	1,984	450,547	0.047	2.358	0.195	0.008	1.652	0.424
NEPAB				0.118	5.773	0.496	0.019	4.010	1.029
Non-Hazardous	65.74	7,616	500,676	0.055	2.658	0.234	0.009	1.835	0.471
Hazardous	65.74	7,040	462,810	0.049	2.432	0.205	0.008	1.697	0.435
Radiological	65.74	1,984	130,428	0.013	0.683	0.056	0.002	0.478	0.123
Outside CA				2.545	124.717	10.734	0.417	86.595	22.222
Non-Hazardous	1495.00	7,616	11,385,920	1.258	60.451	5.331	0.201	41.737	10.710
Hazardous	1495.00	7,040	10,524,800	1.110	55.306	4.661	0.186	38.582	9.901
Radiological	862.88	1,984	1,711,954	0.177	8.960	0.742	0.030	6.276	1.611

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

DOE

Table 4-13: Offsite Overall - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	100	3,132	0.150	0.579	6.161	0.021	2.502	0.622
SCAQMD	8.68	100	868	0.042	0.160	1.707	0.006	0.693	0.172
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
VCAPCD	0.42	100	42	0.002	0.008	0.083	2.8E-04	0.034	0.008
SCAQMD	39.58	100	3,958	0.190	0.732	7.786	0.026	3.161	0.787
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	26,000	814,320	0.020	0.075	0.801	0.003	0.325	0.081
SCAQMD	8.68	26,000	225,680	0.005	0.021	0.222	0.001	0.090	0.022
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103
VCAPCD	0.42	26,000	10,920	2.6E-04	0.001	0.011	3.6E-05	0.004	0.001
SCAQMD	39.58	26,000	1,029,080	0.025	0.095	1.012	0.003	0.411	0.102
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

DOE

Table 4-14: Offsite Overall - DOE Haul Emissions (lbs/day)

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	0.42	64	27	0.006	0.285	0.025	0.001	0.197	0.051
SCAQMD	67.58	64	4,325	0.950	45.864	4.021	0.153	31.709	8.137
Other CA	57	64	3,648	0.802	38.684	3.392	0.129	26.745	6.863
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	64	8,000	1.758	84.833	7.438	0.282	58.651	15.051
Hazardous									
VCAPCD	0.42	64	27	0.006	0.283	0.024	0.001	0.197	0.051
SCAQMD	124.58	64	7,973	1.696	83.951	7.135	0.281	58.455	15.001
Other CA	103	64	6,592	1.402	69.409	5.899	0.233	48.330	12.402
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	64	14,592	3.104	153.643	13.057	0.515	106.982	27.454
Radiological Soil									
VCAPCD	0.42	64	27	0.006	0.282	0.024	0.001	0.197	0.051
SCAQMD	45.78	64	2,930	0.615	30.764	2.582	0.103	21.481	5.513
Other CA	242.6	64	15,526	3.260	163.026	13.681	0.548	113.833	29.213
Non-CA	48.2	64	3,085	0.648	32.390	2.718	0.109	22.616	5.804
Total	337	64	21,568	4.528	226.462	19.004	0.761	158.128	40.580
Maximum Emissions									
VCAPCD				0.006	0.285	0.025	0.001	0.197	0.051
SCAQMD				1.696	83.951	7.135	0.281	58.455	15.001
Other CA				3.260	163.026	13.681	0.548	113.833	29.213
Non-CA				0.648	32.390	2.718	0.109	22.616	5.804
Total				4.528	226.462	19.004	0.761	158.128	40.580
Maximum Emissions by Air Basin									
SCCAB	17.84	64	1,142	0.251	12.107	1.062	0.040	8.371	2.148
SCAB	124.58	64	7,973	1.752	84.548	7.413	0.281	58.456	15.001
SSAB	138.00	64	8,832	1.940	93.655	8.212	0.312	64.753	16.617
MDAB	198.21	64	12,685	2.787	134.517	11.794	0.447	93.004	23.868
SJVAB	71.00	64	4,544	0.998	48.185	4.225	0.160	33.315	8.549
GBVAB	142.64	64	9,129	2.006	96.804	8.488	0.322	66.930	17.176
SACVAB	0.00	64	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0.00	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	64	42,936	9.434	455.300	39.920	1.515	314.791	80.784

*Totals may not add exactly due to rounding.

DOE

Table 4-15: Offsite Overall - DOE Haul Emissions (tons/year)

				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	0.42	12,483	5,243	0.001	0.028	0.002	9.2E-05	0.019	0.005
SCAQMD	67.58	12,483	843,578	0.093	4.473	0.392	0.015	3.092	0.794
Other CA	57	12,483	711,511	0.078	3.772	0.331	0.013	2.608	0.669
Non-CA	0	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	12,483	1,560,331	0.171	8.273	0.725	0.028	5.720	1.468
Hazardous									
VCAPCD	0.42	545	229	0.000	0.001	1.0E-04	4.0E-06	0.001	0.000
SCAQMD	124.58	545	67,926	0.007	0.358	0.030	0.001	0.249	0.064
Other CA	103	545	56,160	0.006	0.296	0.025	0.001	0.206	0.053
Non-CA	0	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	545	124,315	0.013	0.654	0.056	0.002	0.456	0.117
Radiological Soil									
VCAPCD	0.42	1,012	425	0.000	0.002	1.9E-04	7.5E-06	0.002	0.000
SCAQMD	45.78	1,012	46,334	0.005	0.243	0.020	0.001	0.170	0.044
Other CA	242.6	1,012	245,537	0.026	1.289	0.108	0.004	0.900	0.231
Non-CA	48.2	1,012	48,784	0.005	0.256	0.021	0.001	0.179	0.046
Total	337	1,012	341,080	0.036	1.791	0.150	0.006	1.250	0.321
Total Tons/year									
VCAPCD				0.001	0.031	0.003	1.0E-04	2.2E-02	5.5E-03
SCAQMD				0.105	5.074	0.443	0.017	3.511	0.901
Other CA				0.110	5.357	0.464	0.018	3.714	0.953
Non-CA				0.005	0.256	0.021	0.001	0.179	0.046
Total				0.220	10.718	0.931	0.036	7.426	1.906
Maximum Emissions by Air Basin									
SCCAB				0.001	0.031	0.003	1.0E-04	2.2E-02	5.5E-03
SCAB				0.105	5.074	0.443	0.017	3.511	0.901
SSAB				0.195	9.429	0.826	0.031	6.520	1.673
Non-Hazardous	138.00	12,483	1,722,606	0.189	9.133	0.801	0.030	6.315	1.620
Hazardous	103.00	545	56,160	0.006	0.296	0.025	0.001	0.206	0.053
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB				0.302	14.639	1.278	0.049	10.131	2.600
Non-Hazardous	198.21	12,483	2,474,186	0.272	13.118	1.150	0.044	9.070	2.327
Hazardous	162.93	545	88,836	0.009	0.468	0.040	0.002	0.326	0.084
Radiological	198.21	1,012	200,610	0.021	1.053	0.088	0.004	0.735	0.189
SJVAB				0.101	4.863	0.426	0.016	3.363	0.863
Non-Hazardous	71.00	12,483	886,268	0.097	4.699	0.412	0.016	3.249	0.834
Hazardous	57.00	545	31,079	0.003	0.164	0.014	0.001	0.114	0.029
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB				0.015	0.758	0.064	0.003	0.529	0.136
Non-Hazardous	0.00	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	142.64	1,012	144,367	0.015	0.758	0.064	0.003	0.529	0.136
SACVAB				0.000	0.000	0.000	0.000	0.000	0.000
Non-Hazardous	0.00	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB				0.000	0.000	0.000	0.000	0.000	0.000
Non-Hazardous	0.00	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA				1.020	49.401	4.314	0.164	34.186	8.773
Non-Hazardous	670.88	12,483	8,374,361	0.920	44.401	3.893	0.148	30.698	7.877
Hazardous	499.91	545	272,572	0.029	1.435	0.122	0.005	0.999	0.256
Radiological	670.88	1,012	679,002	0.071	3.565	0.299	0.012	2.489	0.639

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

NASA

Table 4-16: Offsite Overall - NASA Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	100	3,132	0.150	0.579	6.161	0.021	2.502	0.622
SCAQMD	8.68	100	868	0.042	0.160	1.707	0.006	0.693	0.172
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
VCAPCD	0.42	100	42	0.002	0.008	0.083	0.000	0.034	0.008
SCAQMD	39.58	100	3,958	0.190	0.732	7.786	0.026	3.161	0.787
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	26,000	814,320	0.020	0.075	0.801	0.003	0.325	0.081
SCAQMD	8.68	26,000	225,680	0.005	0.021	0.222	0.001	0.090	0.022
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103
VCAPCD	0.42	26,000	10,920	2.6E-04	0.001	0.011	3.6E-05	0.004	0.001
SCAQMD	39.58	26,000	1,029,080	0.025	0.095	1.012	0.003	0.411	0.102
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

NASA

Table 4-17: Offsite Overall - NASA Haul Emissions (lbs/day)

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	64	659	0.148	7.013	0.626	0.023	4.828	1.239
SCAQMD	53.58	64	3,429	0.768	36.519	3.261	0.121	25.140	6.451
Other CA	34.13	64	2,184	0.489	23.262	2.077	0.077	16.014	4.109
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	64	6,272	1.405	66.795	5.965	0.221	45.982	11.799
Hazardous									
VCAPCD	0.42	64	27	0.006	0.282	0.024	0.001	0.197	0.051
SCAQMD	124.58	64	7,973	1.676	83.737	7.034	0.281	58.456	15.001
Other CA	172.39	64	11,033	2.319	115.872	9.734	0.389	80.889	20.758
Non-CA	26.61	64	1,703	0.358	17.886	1.503	0.060	12.486	3.204
Total	324	64	20,736	4.358	217.777	18.295	0.731	152.028	39.015
Radiological Soil									
VCAPCD	0.42	64	27	0.006	0.281	0.023	0.001	0.197	0.051
SCAQMD	92.52	64	5,921	1.226	61.985	5.130	0.209	43.413	11.141
Other CA	305.57	64	19,556	4.048	204.720	16.942	0.690	143.381	36.796
Non-CA	299.49	64	19,167	3.967	200.647	16.605	0.676	140.528	36.064
Total	698	64	44,672	9.246	467.633	38.699	1.576	327.519	84.052
Maximum Emissions									
VCAPCD				0.148	7.013	0.626	0.023	4.828	1.239
SCAQMD				1.676	83.737	7.034	0.281	58.456	15.001
Other CA				4.048	204.720	16.942	0.690	143.381	36.796
Non-CA				3.967	200.647	16.605	0.676	140.528	36.064
Total				9.838	496.117	41.207	1.670	347.193	89.101
Maximum Emissions by Air Basin									
SCCAB	0.42	64	27	0.006	0.286	0.026	0.001	0.197	0.051
SCAB	124.58	64	7,973	1.786	84.911	7.583	0.281	58.454	15.000
SSAB	48.40	64	3,098	0.694	32.989	2.946	0.109	22.710	5.827
MDAB	198.21	64	12,685	2.841	135.096	12.064	0.447	93.001	23.865
SJVAB	297.36	64	19,031	4.263	202.675	18.099	0.671	139.523	35.802
GBVAB	156.57	64	10,020	2.244	106.715	9.530	0.353	73.464	18.851
SACVAB	227.09	64	14,534	3.255	154.780	13.822	0.513	106.552	27.342
NEPAB	65.74	64	4,207	0.942	44.807	4.001	0.148	30.846	7.915
Outside CA	862.88	64	55,224	12.370	588.123	52.521	1.948	404.869	103.892

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

NASA

Table 4-18: Offsite Overall - NASA Haul Emissions (tons/year)

				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	2,299	23,657	0.003	0.126	0.011	4.2E-04	0.087	0.022
SCAQMD	53.58	2,299	123,180	0.014	0.656	0.059	0.002	0.452	0.116
Other CA	34.13	2,299	78,465	0.009	0.418	0.037	0.001	0.288	0.074
Non-CA	0	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	2,299	225,302	0.025	1.200	0.107	0.004	0.826	0.212
Hazardous									
VCAPCD	0.42	10,816	4,543	4.8E-04	0.024	0.002	8.0E-05	0.017	0.004
SCAQMD	124.58	10,816	1,347,457	0.142	7.076	0.594	0.024	4.939	1.268
Other CA	172.39	10,816	1,864,570	0.196	9.791	0.823	0.033	6.835	1.754
Non-CA	26.61	10,816	287,814	0.030	1.511	0.127	0.005	1.055	0.271
Total	324	10,816	3,504,384	0.368	18.402	1.546	0.062	12.846	3.297
Radiological Soil									
VCAPCD	0.42	405	170	1.8E-05	0.001	7.4E-05	3.0E-06	0.001	0.000
SCAQMD	92.52	405	37,471	0.004	0.196	0.016	0.001	0.137	0.035
Other CA	305.57	405	123,757	0.013	0.648	0.054	0.002	0.454	0.116
Non-CA	299.49	405	121,295	0.013	0.635	0.053	0.002	0.445	0.114
Total	698	405	282,693	0.029	1.480	0.122	0.005	1.036	0.266
Total Tons/year									
VCAPCD				0.003	0.151	0.013	0.001	0.104	0.027
SCAQMD				0.159	7.928	0.669	0.027	5.528	1.419
Other CA				0.218	10.857	0.913	0.036	7.576	1.944
Non-CA				0.043	2.146	0.180	0.007	1.500	0.385
Total				0.423	21.082	1.776	0.071	14.709	3.775
Maximum Emissions by Air Basin									
SCCAB				0.003	0.151	0.013	0.001	0.104	0.027
SCAB				0.159	7.928	0.669	0.027	5.528	1.419
SSAB				0.067	3.341	0.284	0.011	2.327	0.597
Non-Hazardous	48.40	2,299	111,271	0.012	0.593	0.053	0.002	0.408	0.105
Hazardous	48.40	10,816	523,494	0.055	2.749	0.231	0.009	1.919	0.492
Radiological	0.00	405	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB				0.181	8.980	0.762	0.030	6.255	1.605
Non-Hazardous	123.99	2,299	285,052	0.032	1.518	0.136	0.005	1.045	0.268
Hazardous	123.99	10,816	1,341,076	0.141	7.042	0.592	0.024	4.916	1.262
Radiological	198.21	405	80,276	0.008	0.420	0.035	0.001	0.294	0.076
SJVAB				0.012	0.630	0.052	0.002	0.441	0.113
Non-Hazardous	0.00	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	10,816	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	297.36	405	120,432	0.012	0.630	0.052	0.002	0.441	0.113
GBVAB				0.190	9.404	0.798	0.032	6.550	1.681
Non-Hazardous	131.40	2,299	302,088	0.034	1.609	0.144	0.005	1.107	0.284
Hazardous	131.40	10,816	1,421,222	0.149	7.463	0.627	0.025	5.210	1.337
Radiological	156.57	405	63,412	0.007	0.332	0.027	0.001	0.232	0.060
SACVAB				0.010	0.481	0.040	0.002	0.337	0.087
Non-Hazardous	0.00	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	10,816	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	227.09	405	91,972	0.010	0.481	0.040	0.002	0.337	0.087
NEPAB				0.003	0.139	0.012	0.000	0.098	0.025
Non-Hazardous	0.00	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	10,816	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	65.74	405	26,625	0.003	0.139	0.012	0.000	0.098	0.025
Outside CA				0.073	3.666	0.307	0.012	2.560	0.657
Non-Hazardous	26.61	2,299	61,176	0.007	0.326	0.029	0.001	0.224	0.058
Hazardous	26.61	10,816	287,814	0.030	1.511	0.127	0.005	1.055	0.271
Radiological	862.88	405	349,470	0.036	1.829	0.151	0.006	1.281	0.329

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Monitoring and Maintenance

Table 4-19: Offsite Overall - Monitoring & Maintenance Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	144	4,510	0.217	0.834	8.872	0.030	3.602	0.896
SCAQMD	8.68	144	1,250	0.060	0.231	2.459	0.008	0.998	0.248
total[1]	40	144	5,760	0.277	1.065	11.330	0.038	4.601	1.145
VCAPCD	0.42	144	60	0.003	0.011	0.119	4.0E-04	0.048	0.012
SCAQMD	39.58	144	5,700	0.274	1.053	11.211	0.038	4.552	1.133
total[1]	40	144	5,760	0.277	1.065	11.330	0.038	4.601	1.145
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	37,440	1,172,621	0.028	0.108	1.153	0.004	0.468	0.117
SCAQMD	8.68	37,440	324,979	0.008	0.030	0.320	0.001	0.130	0.032
total[1]	40	37,440	1,497,600	0.036	0.138	1.473	0.005	0.598	0.149
VCAPCD	0.42	37,440	15,725	3.8E-04	0.001	0.015	5.3E-05	0.006	0.002
SCAQMD	39.58	37,440	1,481,875	0.036	0.137	1.457	0.005	0.592	0.147
total[1]	40	37,440	1,497,600	0.036	0.138	1.473	0.005	0.598	0.149

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Air Quality Appendix
Section 5
Mitigated Emission Factors

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Exhaust Emission Factors

Table 5-1: Emission Factors for Offroad Equipment (Adjusted to Tier 4 Final Compliance)

	Adjusted Emission Factors (g/bhp-hr)								HP	LF	
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4			
Rubber Tired Dozers	0.060	0.260	2.200	0.005	0.008	0.008	509.462	0.154	247	0.40	
Concrete/Industrial Saws	0.060	0.260	3.700	0.006	0.008	0.008	568.300	0.055	81	0.73	
Tractors/Loaders/Backhoes	0.060	0.260	3.700	0.005	0.008	0.008	511.346	0.154	97	0.37	
Graders	0.060	0.260	2.200	0.005	0.008	0.008	511.696	0.154	187	0.41	
Excavators	0.060	0.260	3.700	0.005	0.008	0.008	506.495	0.153	158	0.38	
Scrapers	0.060	0.260	2.200	0.005	0.008	0.008	502.255	0.151	367	0.48	
street sweepers	0.120	2.740	3.700	0.005	0.008	0.008	508.357	0.153	64	0.46	
cranes	0.060	0.260	2.200	0.005	0.008	0.008	507.155	0.153	236	0.29	
impact chisels	Electric/battery powered N/A for emissions										
grapplers	0.060	0.260	3.700	0.005	0.008	0.008	506.324	0.153	168	0.40	* modeled as "Other Material Handling Equipment"
Forklifts	0.060	0.260	3.700	0.005	0.008	0.008	505.583	0.153	89	0.20	

Table 5-2: Emission Factors for Onroad Vehicles (Onsite)

	Emission Factors (g/mile)							
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4/N_2O
Water Truck	0.229	5.494	8.522	0.016	0.006	0.006	2582.031	129.102
Haul Truck	0.229	5.494	8.522	0.016	0.006	0.006	2582.031	129.102
Onsite Worker Transport	0.056	0.111	1.356	0.003	0.005	0.004	556.107	27.805
	Emission Factors (g/min)							
Haul Truck	0.008	0.258	0.030	0.001	0.000	0.000	95.46	4.773

Onsite Exhaust Emission Factors

Sources:

- Quantity of each equipment type was provided by DTSC based on current onsite operations.
- Emission factors for unmitigated onsite construction equipment taken from Table 3.4 of Appendix D of the CalEEMod user guide (BREEZE software, a Division of Trinity Consultants, 2016). 2016 emission factors were used as a conservative estimate for all years as equipment is not anticipated to be changed out unless it breaks. Therefore even though construction could last for 18 years, there is the potential that the same equipment in use at the beginning of the project would be in use at the end of the project.
- Emissions for water truck and Haul trucks taken from EMFAC 2014 for Ventura County for Heavy Heavy Duty Trucks at 15 mph.
  (See "EMFAC2014 Emission Rates for Haul Trucks", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Emission factors for onsite worker transport trips are from EMFAC2014 for Ventura County for LDA vehicles traveling 15 mph. (See
  (See "EMFAC2014 Emission Rates for Commuter Vehicles", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Horsepower and load factors taken as the average for each equipment type from Table 3.3 of Appendix D of the CalEEMod User's Guide (BREEZE software, a Division of Trinity Consultants, 2016).
- Tier 4 final Emissions are taken from Table 3.5 of Appendix D of the CalEEMod User Guide (BREEZE software, a Division of Trinity Consultants, 2016). Tier 4 is an EPA standard for emissions of offroad vehicle engines.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Exhaust Emissions

Table 5-3: Mitigated Emissions Per Offroad Vehicle Type per 8 Hour Work Day

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
	(lbs/day) per Excavation Site							
Rubber Tired Dozers	0.105	0.453	3.834	0.009	0.014	0.014	887.739	0.268
Concrete/Industrial Saws	0.063	0.271	3.859	0.006	0.008	0.008	592.656	0.057
Tractors/Loaders/Backhoes	0.038	0.165	2.342	0.003	0.005	0.005	323.672	0.097
Graders	0.081	0.352	2.975	0.007	0.011	0.011	691.918	0.208
Excavators	0.064	0.275	3.918	0.005	0.008	0.008	536.331	0.162
Scrapers	0.186	0.808	6.835	0.016	0.025	0.025	1560.445	0.469
street sweepers	0.062	1.423	1.921	0.003	0.004	0.004	263.951	0.080
cranes	0.072	0.314	2.656	0.006	0.010	0.010	612.164	0.185
impact chisels	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
grapplers	0.071	0.308	4.385	0.006	0.009	0.009	600.088	0.181
Forklifts	0.019	0.082	1.162	0.002	0.003	0.003	158.719	0.048
Water Truck	0.045	1.090	1.691	0.003	0.001	0.001	512.308	25.615

Equations

- Daily emssions = (Emission Factor X Horse power X Load Factor X Quantity X Hours per day) / 453.6
  - 453.6 grams per pound
  - Emission Factor, Horse Power, and Load Factor from Table 1-3.
  - 8 Hour work day (8 hour of equipment usage)
  - Quantity is assumed to be 1 for the purposes of daily emissions in Table 1-5.
- Daily emissions (Water truck) = (Emission Factor X Miles) / 453.6
  - Assumes water trucks at 90 miles per day for onsite operations (15 mph for 6 hrs per day)
- Impact Chisels are electric and therefore do not have quantifiable onsite emissions.

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Offsite Exhaust Emission Factors

Table 5-4: Mitigated Mileage and Emission Factors for Haul Trucks (offsite)

Emission Factors (lbs/mile criteria pollutants; MT/mile GHGs)

		Exhaust								Fugitive	
Haul Truck Emission Factors		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	PM10	PM2.5
	< 55 mph	1.8E-04	0.003	0.002	3.5E-05	1.1E-05	1.0E-05	0.002	8.0E-05	0.007	0.002
	55 mph	5.6E-05	0.001	0.000	3.5E-05	9.0E-06	8.6E-06	0.001	6.7E-05		

Distance (by speed)		Total	<55	55
Boeing	Non-Haz	115	7.3	107.7
	Haz	291	7.3	283.7
	Rad	698	7.3	690.7
DOE	Non-Haz	125	7.3	117.7
	Haz	228	7.3	220.7
	Rad	337	7.3	329.7
NASA	Non-Haz	98	7.3	90.7
	Haz	324	7.3	316.7
	Rad	698	7.3	690.7

Reintrained Road Dust Emission Factors:

$E = k(sL)^{0.91} \times W^{1.02}$

E_{PM10} = k*(0.1)^0.91*497^1.02

= 0.0022 * 0.123 * 26.662

= 0.007 PM10

$E_{PM2.5}$ = 0.00054 * 0.123 * 26.662

= 0.002 PM2.5

E	?	particulate emissions (lbs/VMT)
k	0.0022	PM10 - particle size multiplier (lbs/VMT)
k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
sL	0.1	road surace silt loading grams per square meter (g/m^2)
w	25	average weight in tons of the vehicles traveling the road (tons)

Table 5-5: Mitigated Weighted Emission Factors and Trucks per day for Initial Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	#/day	#/year	Activity
Boeing	Non-Haz	6.37E-05	0.001	4.31E-04	3.53E-05	9.10E-06	8.71E-06	0.001	6.78E-05			
	Haz	5.88E-05	0.001	3.69E-04	3.53E-05	9.04E-06	8.65E-06	0.001	6.73E-05	3	780	TTF
	Rad	5.69E-05	0.001	3.45E-04	3.53E-05	9.01E-06	8.62E-06	0.001	6.71E-05	0	0	Demolition
DOE	Non-Haz	6.30E-05	0.001	4.23E-04	3.53E-05	9.09E-06	8.70E-06	0.001	6.78E-05			
	Haz	5.97E-05	0.001	3.80E-04	3.53E-05	9.05E-06	8.66E-06	0.001	6.74E-05	55	14,934	Area IV & HWMF
	Rad	5.83E-05	0.001	3.63E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05	26	5,606	Area IV & RMHF
	Rad	5.83E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05	3	780	Demolition
NASA	Non-Haz	6.51E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05	1	260	Liquid O2
	Haz	5.84E-05	0.001	3.65E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05	8	2,080	Liquid O2
	Max	6.51E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05			

Sources
- Trucks per day taken from Table 1-6
- Emission Factors taken from EMFAC2014, maximum emissions from each air district potentially crossed for 55 mph, and weighted average by distance for SCCAB and SCAB for <55MPH.
- Distance assumptions for each waste type provided by DTSC.
- Fugitive road dust taken from USEPA AP42 13.2.2 - Paved Roads

Assumptions
- 453.6 grams per pound
- Weighted average determined by distance and speed for each RP.
- Daily trucks are based on 96 trucks per day.
- Annual truck trips are based on 96 trips per day for 260 days.
- HWMF has 412 trips per year and RMHF has 824 trips per year

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Assumes 23 workers per day
- Assumes 2 trips per worker
- Boeing activities have been removed from initial projects.
- [1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) divided by 453.6 (grams per pound) times miles total miles per day plus fugitive lbs per mile (Table 1-1) times number of miles for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive road dust (Table 1-9) times
		=	total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-6
- Number of Haul Trips per daty taken from Table 1-10
- Miles per waste disposal type taken from Table 1-9

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Offsite Exhaust Emission Factors

Table 5-6: Weighted Emission Factors and Trucks per day for Overall Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	Max Truks /day	Max Truks /year
Boeing	Non-Haz	6.37E-05	0.001	4.31E-04	3.53E-05	9.10E-06	8.71E-06	0.001	6.78E-05	32	5,579
	Haz	5.88E-05	0.001	3.69E-04	3.53E-05	9.04E-06	8.65E-06	0.001	6.73E-05		1,127
	Rad	5.69E-05	0.001	3.45E-04	3.53E-05	9.01E-06	8.62E-06	0.001	6.71E-05		314
DOE	Non-Haz	6.30E-05	0.001	4.23E-04	3.53E-05	9.09E-06	8.70E-06	0.001	6.78E-05	32	6,241
	Haz	5.97E-05	0.001	3.80E-04	3.53E-05	9.05E-06	8.66E-06	0.001	6.74E-05		273
	Rad	5.83E-05	0.001	3.63E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05		506
NASA	Non-Haz	6.51E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05	32	1,149
	Haz	5.84E-05	0.001	3.65E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05		5,408
	Rad	5.69E-05	0.001	3.45E-04	3.53E-05	9.01E-06	8.62E-06	0.001	6.71E-05		203

Sources - Emission Factors used to determine weighted emissions taken from Table 1-9.

Assumptions
- 453.6 grams per pound
- Weighted average is based on distance and speed.
- Max Trucks per day assumes maximum potential milage based on number of trucks per waste type and length of trip, and 32 trips per day per RP
- Max trucks per year assumes 80 trucks per day (27 for DOE and Boeing, 26 for NASA) and is weighted to take into account the total amount of trucks per waste type (Table 1-11)

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Number of workers per day is taken from Table 1-11. For M&M each RP is assumed to have 3 workers.
- Assumes 2 trips per worker
- Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. Only the maximum for each air district is reported as a worst case scenario. 40 miles per trip was the average trip length assumed for workers.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).
- No haul trucks required for M&M activities.

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) times 453.6 (grams per pound) times miles total miles per day for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive
		=	road dust times total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-11
- Miles for haul truck trips taken from Table 1-9
- Number of haul truck trips taken from Table 1-12

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Fugitive Dust Emission Factors

Table 5-7: Mitigated Emission Factors For Fugitive Dust

	PM10	PM2.5	Units
Scraper/Grader	1.436	0.155	lbs/VMT
Dozer/Excavator	0.701	0.385	lbs/hr
Truck Loading	1.11E-04	1.68E-05	lbs/ton
Mechanical Demolition	1.03E-04	1.56E-05	lbs/ton
Debris Loading	0.020	0.003	lbs/ton
Unpaved Road Haul	0.734	0.073	lbs/VMT
Paved Road Haul	0.007	0.002	lbs/VMT
Paved Road Commute	7.9E-04	2.0E-04	lbs/VMT

Fugitive emissions from scrapers/graders:

PM_{10} = $(0.051 \times (S)^{2.0}) \times F_{PM10}$
= $(0.051 \times (7.1)^{2.0}) \times 0.6$
= 1.543 lbs/VMT

$PM_{2.5}$ = $(0.04 \times (S)^{2.5}) \times F_{PM2.5}$
= $(0.04 \times (7.1)^{2.5}) \times 0.031$
= 0.167 lbs/VMT

S = mean vehicle speed (mph) Default = 7.1
F_{PM10} = PM_{10} scaling factor default of 0.6
$F_{PM2.5}$ = $PM_{2.5}$ scaling factor default of 0.031

Fugitive emissions from Dozers and Excavators:

PM_{10} = $((C_{PM15} \times s^{1.5})/M^{1.4}) \times F_{PM10}$
= $((1 \times 6.9^{1.5})/7.9^{1.4}) \times 0.75$
= 0.753 lbs/hr

$PM_{2.5}$ = $((C_{TSP} \times s^{1.2})/M^{1.3}) \times F_{PM2.5}$
= $((5.7 \times 6.9^{1.2})/7.9^{1.3}) \times 0.105$

C_{PM15} = arbitary coefficient used by AP-42 = 1
s = material silt content = 6.9 %
M = material moisture content = 7.9%
F_{PM10} = PM_{10} scaling factor default of 0.75
C_{TSP} = arbitary coefficient used by AP-42 = 5.7
$F_{PM2.5}$ = $PM_{2.5}$ scaling factor default of 0.105

Fugitive emissions from truck loading

PM_{10} = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.35 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.11E-04 lbs/ton

$PM_{2.5}$ = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.053 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.68E-05 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.82
M = Material moisture content = 12%

Fugitive Emissions from Mechanical Demolition

PM_{10} = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.35 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.11E-04 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.82
M = Material moisture content = 12%

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Fugitive Emissions

$PM_{2.5}$ = k x (0.0032) x $((U/5)^{1.3}/(M/2)^{1.4})$

= 0.053 x (0.0032) x $((5.82/5)^{1.3}/(12/2)^{1.4})$

= 1.68E-05 lbs/ton

Fugitive Emissions from Debris Loading

PM_{10} = k x $EF_{L\text{-}TSP}$
= 0.35 x 0.058
= 0.020 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
$EF_{L\text{-}TSP}$ = default value = 0.058 lbs/ton

$PM_{2.5}$ = k x $EF_{L\text{-}TSP}$
= 0.053 x 0.058
= 0.003 lbs/ton

Equations

- Emissons for graders and scrapers = Emission factor x(((Acres / blade width of 12 ft) x 43,560 sqft per acre) / 5,280 ft per mile)
  - Acres are based on table provided on page 8 of CalEEMod Appendix A. (BREEZE software, a Division of Trinity Consultants, 2016).
    scrapers 1 acers/8hr day (conservately uses 1 acre for both because of the type of activities)
  - Emissions include a 69% reduction for required fugitive dust control measures.
  - Emission factor taken from Table 1-8.
- Emissions for dozers/excavators = # equipment x hours of operation x emission factor
  - Number of dozers and excavators taken from Table 1-6.
  - 8 hours per day
  - Emission factor taken from Table 1-8.
- Emissions for truck loading (soils) = emission factor * tons of material
  - Emission factor taken from Table 1-8.
- Emissions include a 63% reduction for required fugitive dust control measures.
- Emissions for Excavation truck loading = EF x Tons
  - Tons of soil = tons per truck (Assumed 23) times 2 times the number of trucks (From Table 1-6). Twice the number of trucks is used to account for
  - Emission factor taken from Table 1-8.
  - Tons of soil = tons per truck (Assumed 23) times the number of trucks (From Table 1-6).
- Emissions for fugitive dust from unpaved roads = Number of Miles x Number of Trucks x Emission Factor for PM10/PM2.5
  - Equations and constants taken from EPA's AP-42 13.2.2 Unpaved Roads
  - Emissions include a 69% reduction for required fugitive dust control measures.
  - Emission factor taken from Table 1-8.

Santa Susana Field Laboratory
Air Quality Appendix
Section 6
Mitigated Initial Clean-up Programs

Santa Susana Field Laboratory

Initial Clean-up - Emissions Summary (Mitigated)

Table 6-1: Sumamry of Initial Clean-up Emissions

	Lbs/Day					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Area IV						
Onsite						
Equipment	0.472	3.513	21.567	0.037	62.766	9.193
Haul	0.175	4.331	5.786	0.013	0.004	0.004
Crew	0.224	0.446	5.422	0.012	0.020	0.018
Onsite Total	0.870	8.290	32.776	0.063	62.789	9.215
Offsite						
Crew	0.038	0.148	1.574	0.005	0.639	0.159
Haul -VCAPCD	0.004	0.063	0.024	0.002	0.461	0.114
Haul - SCAQMD	0.905	15.176	5.751	0.537	109.994	27.096
Haul - Other	0.799	13.466	4.979	0.483	99.007	24.390
Offsite Total	1.747	28.853	12.328	1.028	210.101	51.759
Area IV Total						
VCAPCD	0.912	8.502	34.373	0.070	63.890	9.487
SCAQMD	1.814	23.614	40.101	0.605	173.422	36.470
All	2.617	37.144	45.103	1.090	272.890	60.973
Liquid Oxygen Plant						
Onsite						
Equipment	0.472	3.513	21.567	0.037	13.116	3.921
Haul	0.021	0.513	0.685	0.002	0.000	0.000
Crew	0.224	0.446	5.422	0.012	0.020	0.018
Onsite Total	0.716	4.472	27.675	0.051	13.136	3.939
Offsite						
Crew	0.038	0.148	1.574	0.005	0.639	0.159
Haul -VCAPCD	0.002	0.029	0.012	0.001	0.197	0.049
Haul - SCAQMD	0.123	2.076	0.775	0.074	15.177	3.739
Haul - Other	0.191	3.206	1.192	0.115	23.499	5.789
Offsite Total	0.354	5.459	3.553	0.195	39.512	9.735
Liquid Oxygen Plant Total						
VCAPCD	0.756	4.648	29.260	0.057	13.972	4.147
SCAQMD	0.878	6.696	30.024	0.130	28.951	7.837
All	1.070	9.931	31.227	0.246	52.648	13.674
Demolition - DOE						
Onsite						
Equipment	0.311	2.240	17.603	0.025	3.713	0.486
Haul	0.007	0.171	0.228	0.001	0.000	0.000
Crew	0.447	0.892	10.844	0.024	0.039	0.036
Onsite Total	0.765	3.303	28.675	0.050	3.752	0.522
Offsite						
Crew	0.088	0.340	3.619	0.012	1.470	0.366
Haul -VCAPCD	0.000	0.003	0.001	8.9E-05	0.018	0.018
Haul - SCAQMD	0.016	0.293	0.123	0.010	1.985	1.985
Haul - Other	0.102	1.861	0.784	0.062	12.607	12.606
Offsite Total	0.206	2.497	4.528	0.084	16.080	14.975
Demolition Total						
VCAPCD	0.854	3.646	32.296	0.062	5.240	0.906
SCAQMD	0.869	3.936	32.418	0.072	7.206	2.873
All	0.971	5.800	33.203	0.134	19.832	15.497

Santa Susana Field Laboratory
Initial Clean-up - Emissions Summary (Mitigated)

Table 6-1: Sumamry of Initial Clean-up Emissions

	Lbs/Day					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
TTF - Boeing						
Onsite						
Equipment	0.381	3.122	17.309	0.030	7.083	2.767
Haul	0.007	0.171	0.228	0.001	0.000	0.000
Crew	0.224	0.446	5.422	0.012	0.020	0.018
Onsite Total	0.612	3.739	22.959	0.042	7.103	2.785
Offsite						
Crew	0.031	0.118	1.259	0.004	0.511	0.127
Haul -VCAPCD	0.000	0.002	0.001	8.9E-05	0.018	0.004
Haul - SCAQMD	0.044	0.739	0.276	0.026	5.401	1.330
Haul - Other	0.059	0.984	0.367	0.035	7.197	1.773
Offsite Total	0.133	1.844	1.903	0.066	13.127	3.235
TTF - Boeing Total						
VCAPCD	0.643	3.860	24.219	0.047	7.632	2.917
SCAQMD	0.687	4.596	24.494	0.073	13.015	4.243
All	0.745	5.583	24.862	0.108	20.230	6.020
RMHF/HWMF - DOE						
Onsite						
Equipment	0.763	6.244	34.617	0.060	13.406	5.455
Haul	0.011	0.285	0.381	0.001	0.000	0.000
Crew	0.447	0.892	10.844	0.024	0.039	0.036
Onsite Total	1.222	7.421	45.842	0.085	13.445	5.491
Offsite						
Crew	0.077	0.296	3.147	0.011	1.278	0.318
Haul -VCAPCD	0.000	0.004	0.002	1.5E-04	0.030	0.007
Haul - SCAQMD	0.048	0.802	0.324	0.027	5.585	1.376
Haul - Other	0.112	1.872	0.716	0.066	13.494	3.324
Offsite Total	0.017	0.285	0.105	0.010	2.090	0.515
RMHF/HWMF - DOE Total						
VCAPCD	1.299	7.721	48.991	0.096	14.753	5.816
SCAQMD	1.347	8.518	49.313	0.123	20.308	7.185
All	1.238	7.705	45.948	0.095	15.535	6.006
Project Total						
Onsite	4.185	27.225	157.927	0.291	100.225	21.953
Crew	0.273	1.050	11.173	0.038	4.537	1.129
Offsite (VCAPCD)	0.006	0.101	0.039	0.004	0.725	0.192
Offsite (SCAQMD)	1.137	19.085	7.250	0.674	138.141	35.526
Offsite (Other)	1.262	21.390	8.038	0.761	155.804	47.882
Totals						
VCAPCD	4.413	**28.183**	167.084	0.325	104.503	23.030
Threshold	25.00	25.00	N/A	N/A	N/A	N/A
Significant	No	**Yes**	No	No	No	No
SCAQMD	5.603	47.392	176.699	1.005	242.857	58.597
Threshold	55	55	550	150	150	55
Significant	No	**No**	**No**	No	Yes	Yes
All Air Districts						
All	6.642	66.162	180.343	1.674	381.134	102.171

*Totals may not add exactly due to rounding.

Sources: Emissions are taken from Tables 6-3 through 6-16.

Santa Susana Field Laboratory
Initial Clean-up - LST Emissions Summary (Mitigated)

Table 6-2: LST Initial Clean-up Emissions Summary

LST Emissions Summary
(lbs/day)

	NOx	CO	PM10	PM2.5
Emissions	27	158	63	22
Threshold	131	5045	114	53
Significant?	No	No	**No**	**No**

Threshold Determination (2 acre site)

	NOx	NOx^2	CO	PM10	PM2.5	
500 meters	263	146	7,460	162	84	Source Receptor Area 6
400 meters	237	131	5,045	114	53	
300 meters	212	117	3,837	90	37	
200 meters	187	103	2,629	66	21	Source Receptor Area 6

LST's determined by max for each activity as the activities occur at different locations throughout the site.

Sources: LSTs are determined by summing the onsite emissions as reported in Table 3-1.

Assumptions NOx^2: The screening criteria for NOx were developed based on the 1-hour NO_2 CAAQS of 0.18 ppm. However, since the publication of the SCAQMD's guidance, the USEPA has promulgated a 1-hour NO_2 NAAQS of 0.100 ppm based on a 98th percentile value, which is more stringent than the CAAQS. In order to determine if Project emissions would result in an exceedance of the 1 hour NO_2 NAAQS, an approximated LST was estimated to evaluate the federal 1-hour NO_2 standard, as the SCAQMD significance threshold has not been updated to reflect this standard. Calculated by scaling the NO_2 LST for by the ratio of 1-hour NO_2 standards (federal/state)(i.e., 236 lb/day * (0.10/0.18) = 131 lb/day).

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Initial Clean Up Emissions

Table 6-3 Initial Clean-up Daily Emissions

Maximum Daily Emissions (Lbs/day)

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
Area IV - DOE								
Exhaust	0.472	3.513	21.567	0.037	0.056	0.056	3999.060	26.668
Fugitive	-	-	-	-	62.710	9.137	-	-
Haul Trucks	0.175	4.331	5.786	0.013	0.004	0.004	1970.371	98.519
Crew	0.224	0.446	5.422	0.012	0.020	0.018	2224.430	111.221
Total	0.870	8.290	32.776	0.063	62.789	9.215	8193.861	236.408
Liquid Oxygen Plant - NASA								
Exhaust	0.472	3.513	21.567	0.037	0.056	0.056	3999.060	26.668
Fugitive	-	-	-	-	13.060	3.865	-	-
Haul Trucks	0.021	0.513	0.685	0.002	0.000	0.000	233.333	11.667
Crew	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition - DOE								
Exhaust	0.311	2.240	17.603	0.025	0.037	0.037	2768.292	26.284
Fugitive	-	-	-	-	3.676	0.450	-	-
Haul Trucks	0.007	0.171	0.228	0.001	0.000	0.000	77.778	3.889
Crew	0.447	0.892	10.844	0.024	0.039	0.036	4448.860	222.443
Total	0.765	3.303	28.675	0.050	3.752	0.522	7294.929	252.616
TTF - Boeing								
Exhaust	0.381	3.122	17.309	0.030	0.044	0.044	3231.518	26.436
Fugitive	-	-	-	-	7.039	2.723	-	-
Haul Trucks	0.007	0.171	0.228	0.001	0.000	0.000	77.778	3.889
Crew	0.224	0.446	5.422	0.012	0.020	0.018	2224.430	111.221
Total	0.612	3.739	22.959	0.042	7.103	2.785	5533.726	141.546
RMHF/HWMF - DOE								
Exhaust	0.763	6.244	34.617	0.060	0.088	0.088	6463.037	52.872
Fugitive	-	-	-	-	0.00	0.00	-	-
Haul Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crew	0.224	0.446	5.422	0.012	0.039	0.018	2224.430	111.221
Total	0.224	0.446	5.422	0.012	0.039	0.018	2224.430	111.221

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Initial Clean Up Emissions

Table 6-4 Initial Clean-up Annual Emissions

	Annual Emissions (Tons/year)						(MT/year)	
Year 1	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
Area IV - DOE								
Exhaust	0.061	0.457	2.804	0.005	0.007	0.007	471.625	3.145
Fugitive	-	-	-	-	8.152	1.188	-	-
Haul Trucks	0.023	0.563	0.752	0.002	0.001	0.001	232.374	11.619
Crew	0.029	0.058	0.705	0.002	0.003	0.002	262.336	13.117
Total	0.113	1.078	4.261	0.008	8.163	1.198	966.335	27.881
Liquid Oxygen Plant - NASA								
Exhaust	0.061	0.457	2.804	0.005	0.007	0.007	471.625	3.145
Fugitive	-	-	-	-	1.698	0.502	-	-
Haul Trucks	0.003	0.067	0.089	0.000	0.000	0.000	27.518	1.376
Crew	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
Demolition - DOE								
Exhaust	0.040	0.291	2.288	0.003	0.005	0.005	326.476	3.100
Fugitive	-	-	-	-	0.478	0.058	-	-
Haul Trucks	0.001	0.022	0.030	0.000	0.000	0.000	9.173	0.459
Crew	0.058	0.116	1.410	0.003	0.005	0.005	524.672	26.234
Total	0.099	0.429	3.728	0.007	0.488	0.068	860.320	29.792
TTF - Boeing								
Exhaust	0.050	0.406	2.250	0.004	0.006	0.006	381.106	3.118
Fugitive	-	-	-	-	0.915	0.354	-	-
Haul Trucks	0.001	0.022	0.030	0.000	0.000	0.000	9.173	0.459
Crew	0.029	0.058	0.705	0.002	0.003	0.002	262.336	13.117
Total	0.080	0.486	2.985	0.006	0.923	0.362	652.614	16.693
RMHF/HWMF - DOE								
Exhaust	0.099	0.812	4.500	0.008	0.011	0.011	762.212	6.235
Fugitive	-	-	-	-	0.00	0.00	-	-
Haul Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00
Crew	0.029	0.058	0.705	0.002	0.005	0.002	262.336	13.117
Total	0.029	0.058	0.705	0.002	0.005	0.002	262.336	13.117

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Initial Clean Up Emissions

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-6.
- Daily emssions (Fugitive) (lbs/day) - Taken from Table 3-5 and 3-6 for initial clean-up projects.
- Daily emssions (haul trucks) (lbs/day) = [(Emission Factor$_{exhaust}$ X number of trips X Miles) x (Emission Factor$_{idle}$ X number of minutes X number of trucks)] / 453.6
  - Emission Factors from Table 1-4.
  - Number of Trips from Table 1-6
  - **4** miles/ round trip
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
- Daily emssions (crew (onsite worker transport)) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 1-6.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
- Total Daily Emissions for each criteria pollutant is the sume of the daily exhaust, fugitive, haul truck, and crew emissions.
- Annual emssions (Tons/year) = (Daily Emissions * Number of Days)/2000
  - Daily Emissions from Table 3-3.
  - 2,000.00 lbs/ton
  - 260 days per year
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623
  - Daily Emissions from Table 3-3.
  - 2,204.62 lbs per Metric Ton

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Fugitive Emissions

Table 6-5 Initial Clean-up Daily Fugitive Emissions

	Acres	#	Tons/truck	# Trucks	PM10	PM2.5
Maximum (lbs/day) - Area IV						
Scrapers/graders	0.75	N/A	N/A	N/A	0.247	0.032
Dozers/Excavators	N/A	2.50	N/A	N/A	4.667	3.066
Truck Loading	N/A	N/A	N/A	N/A	0.388	0.059
Total					***5.302***	***3.157***
Maximum (lbs/day) - Oxygen Plant						
Scrapers	0.75	N/A	N/A	N/A	0.295	0.032
Dozers/Excavators	N/A	2.50	N/A	N/A	5.578	3.066
Truck Loading	N/A	N/A	N/A	N/A	0.388	0.059
Total					***6.261***	***3.157***

Table 6-6 Initial Clean-up Fugitive Dust from Unpaved Roads
Maximum Daily Emissions (lbs/day)

	# Miles							
	Unpaved	Paved	# Trucks	PM10	PM2.5	# Vans	PM10	PM2.5
Area IV - DOE	1	3	76	57.407	5.980	1	0.001	0.000
Liquid Oxygen Plant - NASA	1	3	9	6.798	0.708	1	0.001	0.000
Demolition - DOE	1	3	3	2.266	0.236	2	0.002	0.000

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Demolition Offsite Emissions - DOE

Table 6-7: Offsite Demolition - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	46	1,441	0.069	0.266	2.834	0.010	1.151	0.286
SCAQMD	8.68	46	399	0.019	0.074	0.785	0.003	0.319	0.079
total[1]	40	46	1,840	0.088	0.340	3.619	0.012	1.470	0.366
VCAPCD	0.42	46	19	0.001	0.004	0.038	1.3E-04	0.015	0.004
SCAQMD	39.58	46	1,821	0.087	0.337	3.581	0.012	1.454	0.362
total[1]	40	46	1,840	0.088	0.340	3.619	0.012	1.470	0.366
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	11,960	374,587	0.009	0.035	0.368	0.001	0.150	0.037
SCAQMD	8.68	11,960	103,813	0.002	0.010	0.102	3.5E-04	0.041	0.010
total[1]	40	11,960	478,400	0.011	0.044	0.471	0.002	0.191	0.048
VCAPCD	0.42	11,960	5,023	1.2E-04	0.000	0.005	1.7E-05	0.002	0.000
SCAQMD	39.58	11,960	473,377	0.011	0.044	0.466	0.002	0.189	0.047
total[1]	40	11,960	478,400	0.011	0.044	0.471	0.002	0.191	0.048

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Demolition Offsite Emissions - DOE

Table 6-8: Offsite Demolition - DOE Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	6	3	0.000	0.003	0.001	8.9E-05	0.018	0.018
SCAQMD	45.78	6	275	0.016	0.293	0.123	0.010	1.985	1.985
Other CA	242.6	6	1,456	0.085	1.553	0.654	0.051	10.517	10.517
Non-CA	48.2	6	289	0.017	0.308	0.130	0.010	2.090	2.090
Total	337	6	2022	0.118	2.157	0.908	0.071	14.610	14.609
Maximum Emissions by Air Basin									
SCCAB	0.42	6	3	0.000	0.003	0.001	8.9E-05	0.018	0.018
SCAB	45.78	6	275	0.016	0.293	0.123	0.010	1.985	1.985
SSAB	0.00	6	0	0.000	0.000	0.000	0.0E+00	0.000	0.000
MDAB	198.21	6	1,189	0.069	1.268	0.534	0.042	8.593	8.593
SJVAB	0.00	6	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	142.64	6	856	0.050	0.913	0.384	0.030	6.184	6.184
SACVAB	0.00	6	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0.00	6	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	6	4,025	0.235	4.293	1.808	0.142	29.085	29.083
				tons/year					
	Miles/trip	**# Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	1,560	655	1.9E-05	0.000	1.5E-04	1.2E-05	0.002	0.002
SCAQMD	45.78	1,560	71,417	0.002	0.038	0.016	0.001	0.258	0.258
Other CA	242.6	1,560	378,456	0.011	0.202	0.085	0.007	1.367	1.367
Non-CA	48.2	1,560	75,192	0.002	0.040	0.017	0.001	0.272	0.272
Total	337	1,560	525,720	0.015	0.280	0.118	0.009	1.899	1.899
Maximum Emissions by Air Basin									
SCCAB	0.42	1,560	655	1.9E-05	0.000	1.5E-04	1.2E-05	0.002	0.002
SCAB	45.78	1,560	71,417	2.1E-03	0.038	0.016	0.001	0.258	0.258
SSAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB	198.21	1,560	309,208	0.009	0.165	0.069	0.005	1.117	1.117
SJVAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	142.64	1,560	222,518	0.006	0.119	0.050	0.004	0.804	0.804
SACVAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	1,560	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	1,560	1,046,573	0.031	0.558	0.235	0.018	3.781	3.781

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Area IV Offsite Emissions

Table 6-9: Aera IV Offsite - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	20	626	0.030	0.116	1.232	0.004	0.500	0.124
SCAQMD	8.68	20	174	0.008	0.032	0.341	0.001	0.139	0.034
total	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
VCAPCD	0.42	20	8	4.0E-04	0.002	0.017	5.6E-05	0.007	0.002
SCAQMD	39.58	20	792	0.038	0.146	1.557	0.005	0.632	0.157
Total	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
				tons/year					
	Miles/trip	**# trips**	**Miles**	**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	5,200	162,864	0.004	0.015	0.160	0.001	0.065	0.016
SCAQMD	8.68	5,200	45,136	0.001	0.004	0.044	1.5E-04	0.018	0.004
total	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021
VCAPCD	0.42	5,200	2,184	5.2E-05	2.0E-04	0.002	7.3E-06	0.001	0.000
SCAQMD	39.58	5,200	205,816	0.005	0.019	0.202	0.001	0.082	0.020
Total	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

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Area IV Offsite Emissions

Table 6-10: Aera IV Offsite - DOE Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	47	20	0.001	0.019	0.007	0.001	0.143	0.035
SCAQMD	45.78	47	2,157	0.126	2.120	0.784	0.076	15.586	3.840
Other CA	242.6	47	11,431	0.667	11.234	4.154	0.403	82.596	20.347
Other Non-CA	48.2	47	2,271	0.132	2.232	0.825	0.080	16.410	4.043
Total	337	47	15879.44	0.926	15.606	5.770	0.560	114.736	28.264
Hazardous Disposal Site									
VCAPCD	0.42	105	44	0.003	0.044	0.017	0.002	0.318	0.078
SCAQMD	124.58	105	13,066	0.779	13.056	4.967	0.461	94.408	23.257
Other CA	0	105	0	0.000	0.000	0.000	0.000	0.000	0.000
Other Non-CA	0	105	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	105	13,110	0.782	13.100	4.984	0.462	94.726	23.335
Maximum Emissions by Air Basin									
SCCAB	0.42	162	68	0.004	0.068	0.026	0.002	0.492	0.121
SCAB	124.58	162	20,182	1.204	20.166	7.673	0.712	145.824	35.923
SSAB	103	162	16,686	0.995	16.673	6.344	0.589	120.564	29.700
MDAB	198.21	162	32,110	1.915	32.084	12.208	1.133	232.010	57.155
SJVAB	57	162	9,234	0.551	9.227	3.511	0.326	66.720	16.436
GBVAB	142.64	162	23,108	1.378	23.089	8.785	0.815	166.964	41.131
SACVAB	0	162	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	162	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	162	108,683	6.483	108.596	41.320	3.834	785.282	193.451
				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Radiological Disposal Site									
VCAPCD	0.42	12,251	5,146	0.000	0.003	0.001	9.1E-05	0.019	0.005
SCAQMD	45.78	12,251	560,860	0.016	0.276	0.102	0.010	2.026	0.499
Other CA	242.6	12,251	2,972,141	0.087	1.460	0.540	0.052	10.738	2.645
Other Non-CA	48.2	12,251	590,508	0.017	0.290	0.107	0.010	2.133	0.526
Total	337	12,251	4128654.4	0.120	2.029	0.750	0.073	14.916	3.674
Hazardous Disposal Site									
VCAPCD	0.42	27,269	11,453	0.000	0.006	0.002	2.0E-04	0.041	0.010
SCAQMD	124.58	27,269	3,397,147	0.101	1.697	0.646	0.060	12.273	3.023
Other CA	0	27,269	0	0.000	0.000	0.000	0.000	0.000	0.000
Other Non-CA	0	27,269	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	27,269	3,408,600	0.102	1.703	0.648	0.060	12.314	3.034
Maximum Emissions by Air Basin									
SCCAB	0.42	42,120	17,690	0.001	0.009	0.003	3.1E-04	0.064	0.016
SCAB	124.58	42,120	5,247,310	0.157	2.622	0.997	0.093	18.957	4.670
SSAB	103	42,120	4,338,360	0.129	2.167	0.825	0.077	15.673	3.861
MDAB	198.21	42,120	8,348,605	0.249	4.171	1.587	0.147	30.161	7.430
SJVAB	57	42,120	2,400,840	0.072	1.199	0.456	0.042	8.674	2.137
GBVAB	142.64	42,120	6,007,997	0.179	3.002	1.142	0.106	21.705	5.347
SACVAB	0	42,120	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	42,120	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	42,120	28,257,466	0.843	14.118	5.372	0.498	102.087	25.149

*Totals may not add exactly due to rounding.

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Liquid Oxygen Plant Offsite Emissions

Table 6-11: Liquid Oxygen Plant Offsite - NASA Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	20	626	0.030	0.116	1.232	0.004	0.500	0.124
SCAQMD	8.68	20	174	0.008	0.032	0.341	0.001	0.139	0.034
total[1]	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
VCAPCD	0.42	20	8	0.000	0.002	0.017	5.6E-05	0.007	0.002
SCAQMD	39.58	20	792	0.038	0.146	1.557	0.005	0.632	0.157
total[1]	40	20	800	0.038	0.148	1.574	0.005	0.639	0.159
				tons/year					
				ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	5,200	162,864	0.004	0.015	0.160	0.001	0.065	0.016
SCAQMD	8.68	5,200	45,136	0.001	0.004	0.044	1.5E-04	0.018	0.004
total[1]	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021
VCAPCD	0.42	5,200	2,184	5.2E-05	2.0E-04	0.002	7.3E-06	0.001	0.000
SCAQMD	39.58	5,200	205,816	0.005	0.019	0.202	0.001	0.082	0.020
total[1]	40	5,200	208,000	0.005	0.019	0.205	0.001	0.083	0.021

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

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Liquid Oxygen Plant Offsite Emissions

Table 6-12: Liquid Oxygen Plant Offsite - NASA Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous Disposal Site									
VCAPCD	10.29	2	21	0.001	0.022	0.009	0.001	0.149	0.037
SCAQMD	53.58	2	107	0.007	0.114	0.048	0.004	0.774	0.191
Other CA	34.13	2	68	0.004	0.073	0.031	0.002	0.493	0.122
Other Non-CA	0	2	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	2	196	0.013	0.209	0.088	0.007	1.416	0.349
Hazardous Disposal Site									
VCAPCD	0.42	16	7	0.000	0.007	0.002	2.4E-04	0.049	0.012
SCAQMD	124.58	16	1,993	0.116	1.962	0.727	0.070	14.402	3.548
Other CA	172.39	16	2,758	0.161	2.715	1.006	0.097	19.930	4.910
Other Non-CA	26.61	16	426	0.025	0.419	0.155	0.015	3.076	0.758
Total	324	16	5,184	0.303	5.102	1.891	0.183	37.457	9.227
Maximum Emissions by Air Basin									
SCCAB	0.42	18	8	0.000	0.008	0.003	2.7E-04	0.055	0.013
SCAB	124.58	18	2,242	0.146	2.392	1.007	0.079	16.203	3.992
SSAB	48.4	18	871	0.057	0.929	0.391	0.031	6.295	1.551
MDAB	123.99	18	2,232	0.145	2.381	1.002	0.079	16.126	3.973
SJVAB	0	18	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	131.4	18	2,365	0.154	2.523	1.062	0.083	17.090	4.210
SACVAB	0	18	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	18	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	26.61	18	479	0.031	0.511	0.215	0.017	3.461	0.853
				tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous Disposal Site									
VCAPCD	10.29	520	5,351	0.000	0.003	0.001	9.4E-05	0.019	0.005
SCAQMD	53.58	520	27,862	0.001	0.015	0.006	4.9E-04	0.101	0.025
Other CA	34.13	520	17,748	0.001	0.009	0.004	3.1E-04	0.064	0.016
Other Non-CA	0	520	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	520	50960	0.002	0.027	0.011	0.001	0.184	0.045
Hazardous Disposal Site									
VCAPCD	0.42	4,160	1,747	5.1E-05	0.001	0.000	3.1E-05	0.006	0.002
SCAQMD	124.58	4,160	518,253	0.015	0.255	0.095	0.009	1.872	0.461
Other CA	172.39	4,160	717,142	0.021	0.353	0.131	0.013	2.591	0.638
Other Non-CA	26.61	4,160	110,698	0.003	0.054	0.020	0.002	0.400	0.099
Total	324	4,160	1,347,840	0.039	0.663	0.246	0.024	4.869	1.200
Maximum Emissions by Air Basin									
SCCAB	0.42	4,680	1,966	6.4E-05	0.001	0.000	3.5E-05	0.007	0.002
SCAB	124.58	4,680	583,034	0.019	0.311	0.131	0.010	2.106	0.519
SSAB	48.4	4,680	226,512	0.007	0.121	0.051	0.004	0.818	0.202
MDAB	123.99	4,680	580,273	0.019	0.309	0.130	0.010	2.096	0.516
SJVAB	0	4,680	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB	131.4	4,680	614,952	0.020	0.328	0.138	0.011	2.222	0.547
SACVAB	0	4,680	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	4,680	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	26.61	4,680	124,535	0.004	0.066	0.028	0.002	0.450	0.111

*Totals may not add exactly due to rounding.

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TTF- Boeing

Table 6-13: TTF Offsite - Boeing Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	16	501	0.024	0.093	0.986	0.003	0.400	0.100
SCAQMD	8.68	16	139	0.007	0.026	0.273	0.001	0.111	0.028
total[1]	40	32	1,280	0.031	0.118	1.259	0.004	0.511	0.127
VCAPCD	0.42	16	7	0.000	0.001	0.013	4.5E-05	0.005	0.001
SCAQMD	39.58	16	633	0.030	0.117	1.246	0.004	0.506	0.126
total[1]	40	32	1,280	0.031	0.118	1.259	0.004	0.511	0.127
				tons/year					
				VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	4,160	130,291	0.003	0.012	0.128	4.4E-04	0.052	0.013
SCAQMD	8.68	4,160	36,109	0.001	0.003	0.036	1.2E-04	0.014	0.004
total[1]	40	8,320	332,800	0.004	0.015	0.164	0.001	0.066	0.017
VCAPCD	0.42	4,160	1,747	4.2E-05	1.6E-04	0.002	5.8E-06	0.001	0.000
SCAQMD	39.58	4,160	164,653	0.004	0.015	0.162	0.001	0.066	0.016
total[1]	40	8,320	332,800	0.004	0.015	0.164	0.001	0.066	0.017

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

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TTF- Boeing

Table 6-14: TTF Offsite - Boeing Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	6	3	0.000	0.002	0.001	8.9E-05	0.018	0.004
SCAQMD	124.58	6	747	0.044	0.739	0.276	0.026	5.401	1.330
Other CA	166	6	996	0.059	0.984	0.367	0.035	7.197	1.773
Other Non-CA	0	6	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	6	1,746	0.103	1.725	0.644	0.062	12.616	3.108
Maximum Emissions by Air Basin									
SCCAB	10.29	6	62	0.004	0.061	0.023	0.002	0.446	0.110
SCAB	124.58	6	747	0.044	0.739	0.276	0.026	5.401	1.330
SSAB	48.40	6	290	0.017	0.287	0.107	0.010	2.098	0.517
MDAB	198.21	6	1,189	0.070	1.175	0.439	0.042	8.593	2.117
SJVAB	297.36	6	1,784	0.105	1.763	0.658	0.063	12.891	3.176
GBVAB	156.57	6	939	0.055	0.928	0.347	0.033	6.788	1.672
SACVAB	227.09	6	1,363	0.080	1.346	0.503	0.048	9.845	2.425
NEPAB	65.74	6	394	0.023	0.390	0.146	0.014	2.850	0.702
Outside CA	1495.00	6	8,970	0.527	8.864	3.309	0.316	64.812	15.966
				tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	6	3	1.9E-05	0.000	1.2E-04	1.2E-05	0.002	0.001
SCAQMD	124.58	6	747	0.006	0.096	0.036	0.003	0.702	0.173
Other CA	166	6	996	0.008	0.128	0.048	0.005	0.936	0.230
Other Non-CA	0	6	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	6	1,746	0.013	0.224	0.084	0.008	1.640	0.404
Maximum Emissions by Air Basin									
SCCAB	10.29	6	62	2.0E-06	3.3E-05	1.4E-05	1.1E-06	0.058	0.014
SCAB	124.58	6	747	2.4E-05	0.000	1.7E-04	1.3E-05	0.702	0.173
SSAB	48.4	6	290	9.4E-06	0.000	6.5E-05	5.1E-06	0.273	0.067
MDAB	198.21	6	1,189	3.9E-05	0.001	0.000	2.1E-05	1.117	0.275
SJVAB	297.36	6	1,784	5.8E-05	0.001	0.000	3.1E-05	1.676	0.413
GBVAB	156.57	6	939	3.1E-05	0.001	2.1E-04	1.7E-05	0.882	0.217
SACVAB	227.09	6	1,363	4.4E-05	0.001	0.000	2.4E-05	1.280	0.315
NEPAB	65.74	6	394	1.3E-05	0.000	8.9E-05	7.0E-06	0.371	0.091
Outside CA	1495	6	8,970	0.000	0.005	0.002	1.6E-04	8.426	2.076

*Totals may not add exactly due to rounding.

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RMHF/ HWMF -DOE

Table 36-15: RMHF/HWMF Offsite - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	40	1,253	0.060	0.232	2.464	0.008	1.001	0.249
SCAQMD	8.68	40	347	0.017	0.064	0.683	0.002	0.277	0.069
total[1]	40	40	1,600	0.077	0.296	3.147	0.011	1.278	0.318
VCAPCD	0.42	40	17	0.001	0.003	0.033	1.1E-04	0.013	0.003
SCAQMD	39.58	40	1,583	0.076	0.293	3.114	0.011	1.265	0.315
total[1]	40	40	1,600	0.077	0.296	3.147	0.011	1.278	0.318
				tons/year					
				ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	2,600	81,432	0.008	0.030	0.320	0.001	0.130	0.032
SCAQMD	8.68	2,600	22,568	0.002	0.008	0.089	3.0E-04	0.036	0.009
total[1]	40	2,600	104,000	0.010	0.038	0.409	0.001	0.166	0.041
VCAPCD	0.42	2,600	1,092	1.0E-04	4.0E-04	0.004	1.5E-05	0.002	0.000
SCAQMD	39.58	2,600	102,908	0.010	0.038	0.405	0.001	0.164	0.041
total[1]	40	2,600	104,000	0.010	0.038	0.409	0.001	0.166	0.041

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

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RMHF/ HWMF -DOE

Table 6-16: RMHF/HWMF Offsite - DOE Haul Emissions

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	4	2	1.1E-04	0.002	0.001	5.9E-05	0.012	0.003
SCAQMD	124.58	4	498	0.032	0.532	0.224	0.018	3.601	0.887
Other CA	103	4	412	0.027	0.439	0.185	0.015	2.977	0.733
Other Non-CA	0	4	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	4	912	0.059	0.973	0.410	0.032	6.590	1.623
Radiological Disposal Site									
VCAPCD	0.42	6	3	0.000	0.002	0.001	8.9E-05	0.018	0.004
SCAQMD	45.78	6	275	0.016	0.270	0.100	0.010	1.985	0.489
Other CA	242.6	6	1,456	0.085	1.433	0.531	0.051	10.517	2.591
Other Non-CA	48.2	6	289	0.017	0.285	0.105	0.010	2.090	0.515
Total	337	6	2,022	0.118	1.990	0.738	0.071	14.610	3.599
Maximum Emissions by Air Basin									
SCCAB	0.42	10	4	0.000	0.004	0.002	1.5E-04	0.030	0.007
SCAB	124.58	10	1,246	0.074	1.245	0.474	0.044	9.001	2.217
SSAB	103	10	1,030	0.061	1.029	0.392	0.036	7.442	1.833
MDAB	198.21	10	1,982	0.118	1.981	0.754	0.070	14.322	3.528
SJVAB	57	10	570	0.034	0.570	0.217	0.020	4.119	1.015
GBVAB	142.64	10	1,426	0.085	1.425	0.542	0.050	10.306	2.539
SACVAB	0	10	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	10	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	10	6,709	0.400	6.703	2.551	0.237	48.474	11.941
				tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Hazardous Disposal Site									
VCAPCD	0.42	26	11	1.4E-05	0.000	9.8E-05	7.7E-06	0.002	3.9E-04
SCAQMD	124.58	26	3,239	0.004	0.069	0.029	0.002	0.468	0.115
Other CA	103	26	2,678	0.003	0.057	0.024	0.002	0.387	0.095
Other Non-CA	0	26	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	26	5928	0.008	0.126	0.053	0.004	0.857	0.211
Radiological Disposal Site									
VCAPCD	0.42	496	208	1.9E-05	0.000	1.2E-04	1.2E-05	0.002	0.001
SCAQMD	45.78	496	22,707	0.002	0.035	0.013	0.001	0.258	0.064
Other CA	242.6	496	120,330	0.011	0.186	0.069	0.007	1.367	0.337
Other Non-CA	48.2	496	23,907	0.002	0.037	0.014	0.001	0.272	0.067
Total	337	496	167,152	0.015	0.259	0.096	0.009	1.899	0.468
Maximum Emissions by Air Basin									
SCCAB	0.42	522	219	0.013	0.219	0.083	0.008	0.004	0.001
SCAB	124.58	522	65,031	3.879	64.979	24.724	2.294	1.170	0.288
SSAB	103	522	53,766	3.207	53.723	20.441	1.897	0.967	0.238
MDAB	198.21	522	103,466	6.172	103.383	39.336	3.650	1.862	0.459
SJVAB	57	522	29,754	1.775	29.730	11.312	1.050	0.535	0.132
GBVAB	142.64	522	74,458	4.441	74.399	28.308	2.626	1.340	0.330
SACVAB	0	522	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0	522	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	522	350,199	20.889	349.921	133.141	12.353	6.302	1.552

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Air Quality Appendix
Section 7
Mitigated Overall Cleanup Emissions

Santa Susana Field Laboratory
Overall Cleanup - Emissions Summary - Mitigated

Table 7-1: Sumamry of Program Emissions

	Lbs/Day					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Boeing						
Onsite						
Equipment	0.868	7.592	38.966	0.068	32.565	4.036
Haul	0.074	1.824	2.436	0.005	0.002	0.002
Crew	0.010	0.020	0.239	0.001	0.001	0.001
Onsite Total	0.951	9.435	41.642	0.074	32.567	4.039
Offsite						
Crew	0.576	2.218	23.605	0.080	9.585	2.385
Haul -VCAPCD	0.042	0.691	0.284	0.023	4.758	1.172
Haul - SCAQMD	0.469	7.879	2.941	0.281	57.609	14.192
Haul - Other	2.204	37.368	13.366	1.366	279.796	68.926
Offsite Total	3.291	48.156	40.196	1.751	351.749	86.674
Boeing Total						
VCAPCD	1.569	12.344	65.530	0.177	46.910	7.596
SCAQMD	1.996	19.532	68.188	0.435	99.761	20.615
All	4.242	57.591	81.838	1.824	384.316	90.713
DOE						
Onsite						
Equipment	0.492	3.601	22.311	0.039	30.367	5.711
Haul	0.074	1.824	2.436	0.005	0.002	0.002
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Onsite Total	0.569	5.431	24.827	0.045	30.369	5.712
Offsite						
Crew	0.192	0.739	7.868	0.027	3.195	0.795
Haul -VCAPCD	0.002	0.028	0.011	0.001	0.194	0.048
Haul - SCAQMD	0.476	7.967	3.031	0.281	57.609	14.192
Haul - Other	1.086	18.290	6.763	0.656	134.474	33.127
Offsite Total	1.755	27.025	17.673	0.965	195.473	48.161
DOE Total						
VCAPCD	0.763	6.199	32.707	0.072	33.759	6.555
SCAQMD	1.236	14.137	35.726	0.353	91.174	20.699
All	2.324	32.456	42.500	1.010	225.842	53.874
NASA						
Onsite						
Equipment	0.492	3.601	22.311	0.039	29.392	5.203
Haul	0.074	1.824	2.436	0.005	0.002	0.002
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Onsite Total	0.569	5.431	24.827	0.045	29.394	5.205
Offsite						
Crew	0.192	0.739	7.868	0.027	3.195	0.795
Haul -VCAPCD	0.043	0.702	0.296	0.023	4.758	1.172
Haul - SCAQMD	0.466	7.847	2.908	0.281	57.609	14.192
Haul - Other	2.204	37.368	13.366	1.366	279.796	68.926
Offsite Total	2.905	46.656	24.439	1.697	345.359	85.084
NASA Total						
VCAPCD	0.804	6.873	32.991	0.095	37.348	7.172
SCAQMD	1.227	14.017	35.604	0.353	90.199	20.192
All	3.473	52.088	49.266	1.742	374.754	90.289
Project Total						
Onsite	2.088	20.298	91.296	0.163	92.331	14.956
Offsite Commute	0.961	3.697	39.341	0.134	15.975	3.975
Offsite Haul (VCAPCD)	0.086	1.421	0.591	0.047	9.711	2.392
Offsite Haul (SCAQMD)	1.410	23.693	8.881	0.844	172.828	42.575
Haul (VC & SC total)	1.497	25.114	9.472	0.891	182.539	44.968
Offsite (Other Air Districts)	5.493	93.026	33.495	3.388	694.067	170.978

*Totals may not add exactly due to rounding.

Sources: Emissions taken from Tables 7-6 through 7-18

Santa Susana Field Laboratory
Overall Cleanup - Emissions Summary - Mitigated

Table 7-2: Sumamry of Maintenance & Monitoring Emissions

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
M&M (onsite)	0.005	0.009	0.115	2.6E-04	0.004	0.001
M&M Offsite (VCAPCD)[1]	0.217	0.834	8.872	0.030	3.602	0.896
M&M Offsite (SCAQMD)[1]	0.274	1.053	11.211	0.038	4.552	1.133
M&M Total[1]	0.281	1.074	11.445	0.039	4.605	1.146

[1] Offsite emissions for each air district represent the maximum emissions that could occur depending on where the workers are located. The M&M total is the onsite emissions plus the total commute emissions (based on total workers and a total of a 40 mile round trip regardless of the air district the miles occur within).

*Totals may not add exactly due to rounding.

Sources: Emissions taken from Table 7-19

Table 7-3: Project Emissions Summary

Lbs/Day

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
Project Totals						
VCAPCD						
Onsite	2.088	20.298	91.296	0.163	92.331	14.956
Offsite - Crew	0.752	2.894	30.804	0.105	12.508	3.112
Offsite - Haul	0.086	1.421	0.591	0.047	9.711	2.392
M&M	0.217	0.834	8.872	0.030	3.602	0.896
Total Emissions	3.144	25.447	131.562	0.345	118.153	21.357
Threshold	25	25	N/A	N/A	N/A	N/A
Significant	No	**Yes**	No	No	No	No
SCAQMD						
Onsite	2.088	20.298	91.296	0.163	92.331	14.956
Offsite - Crew	0.950	3.658	38.928	0.132	15.807	3.933
Offsite - Haul	1.410	23.693	8.881	0.844	172.828	42.575
M&M	0.274	1.053	11.211	0.038	4.552	1.133
Total Emissions	4.723	48.702	150.316	1.177	285.518	62.597
Threshold	55	55	550	150	150	55
Significant	No	**No**	No	No	**Yes**	**Yes**
All Air Districts						
Average	5	50	152	1	295	65

*Totals may not add exactly due to rounding.

Sources Tables 7-1 and 7-2

Santa Susana Field Laboratory
Overall Cleanup - LST Emissions Summary - Mitigated

Table 7-4: LST Program Level Emissions Summary

(lbs/day)

	NOx	CO	PM10	PM2.5
Emissions	20.298	91.296	32.567	14.956
Threshold	131	5,045	114	53
Significant?	No	No	No	No

Threshold Determination (2 acre site)

	NOx	NOx[2]	CO	PM10	PM2.5	
500 meters	263	146	7,460	162	84	Source Receptor Area 6
400 meters	237	131	5,045	114	53	
300 meters	212	117	3,837	90	37	
200 meters	187	103	2,629	66	21	Source Receptor Area 6
100 meters	156	86	1,497	33	9	Source Receptor Area 6
50 meters	143	79	903	17	5	Source Receptor Area 6
25 meters	147	81	644	7	4	Source Receptor Area 6
	25.3333333	1207.75	24	15.75		

LST's determined by max for each RP as the activities occur at different locations throughout the site.

Sources: LSTs are determined by summing the onsite emissions as reported in Table 7-1.

Assumptions NOx^2: The screening criteria for NOx were developed based on the 1-hour NO_2 CAAQS of 0.18 ppm. However, since the publication of the SCAQMD's guidance, the USEPA has promulgated a 1-hour NO_2 NAAQS of 0.100 ppm based on a 98th percentile value, which is more stringent than the CAAQS. In order to determine if Project emissions would result in an exceedance of the 1 hour NO_2 NAAQS, an approximated LST was estimated to evaluate the federal 1-hour NO_2 standard, as the SCAQMD significance threshold has not been updated to reflect this standard. Calculated by scaling the NO_2 LST for by the ratio of 1-hour NO_2 standards (federal/state)(i.e., 236 lb/day * (0.10/0.18) = 131 lb/day).

Santa Susana Field Laboratory
Overall Cleanup - LST Emissions Summary - Mitigated

Table 7-5: Maximum Haul Emissions By Air Basin

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
		lbs/day					
SSAB		1.272	20.949	8.654	0.702	143.807	35.427
	ICAPCD	55	55	550	150	150	N/A
MDAB		2.432	**40.046**	16.535	1.342	**274.977**	67.741
	SCAQMD	55	55	550	150	150	55
	MDAQMD	137	137	548	137	82	65
	AVAQMD	137	137	548	137	82	82
	EKCAPCD	137	137	N/A	N/A	N/A	N/A
GBAVB		2	31	13	1	211	52
	GBUAPCD	N/A	N/A	N/A	N/A	N/A	N/A
SACVAB		1.871	30.750	12.796	1.025	**210.028**	51.741
	SMAQMD	65	65	N/A	N/A	80	80
	YSAQMD	N/A	N/A	CAAQS	N/A	80	N/A
	CCAPCD	N/A	N/A	N/A	N/A	N/A	N/A
	GCAPCD	N/A	N/A	N/A	N/A	N/A	N/A
	TCAPCD	25	25	N/A	N/A	80	N/A
	SHCAQMD	25	25	N/A	N/A	80	N/A
NEPAB		0.541	8.902	3.704	0.297	60.801	14.978
	SCAPCD	250	250	250	250	250	250
Outside CA		12	204	84	7	1401	345
Exceed Threshold?		***No***	***Yes***	***No***	***No***	***Yes***	***No***
		Tons/year					
MDAB		0.237	3.953	1.550	0.137	**28.029**	6.880
	MDAQMD	*25*	*25*	*100*	*25*	*15*	*12*
	AVAQMD	*25*	*25*	*100*	*25*	*15*	*15*
SJVAB		0.183	3.042	1.190	0.106	**21.598**	5.301
	SJVPCP	*10*	*10*	*100*	*27*	*15*	*15*
SACVAB		*0.117*	*1.959*	*0.761*	*0.068*	*13.966*	*3.428*
	SMAQMD	N/A	N/A	N/A	N/A	15	15
	YSAQMD	10	10	N/A	N/A	N/A	N/A
NEPAB		*0.034*	*0.567*	*0.220*	*0.020*	*4.043*	*0.992*
	SCAPCD	40	40	100	40	15	N/A
Outside CA		1	17	7	1	121	30
Exceed Threshold?		***No***	***Yes***	***No***	***No***	***Yes***	***No***

*Totals may not add exactly due to rounding.

Sources: Emissions taken from Tables 7-6 through 7-18

Santa Susana Field Laboratory
Overall Site Clean-up - Mitigated

Overall Site Cleanup Emissions

Table 7-6: Overall Cleanup Daily Onsite Emissions

	Maximum Daily Emissions (Lbs/day)					
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Boeing						
Exhaust	0.868	7.592	38.966	0.068	0.097	0.097
Fugitive	-	-	-	-	32.468	3.940
Haul Trucks	0.074	1.824	2.436	0.005	0.002	0.002
Crew	0.010	0.020	0.239	0.001	0.001	0.001
Total	0.951	9.435	41.642	0.074	32.567	4.039
DOE						
Exhaust	0.492	3.601	22.311	0.039	0.059	0.059
Fugitive	-	-	-	-	30.309	5.652
Haul Trucks	0.074	1.824	2.436	0.005	0.002	0.002
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Total	0.569	5.431	24.827	0.045	30.369	5.712
NASA						
Exhaust	0.492	3.601	22.311	0.039	0.059	0.059
Fugitive	-	-	-	-	29.334	5.144
Haul Trucks	0.074	1.824	2.436	0.005	0.002	0.002
Crew	0.003	0.007	0.080	1.8E-04	2.9E-04	2.6E-04
Total	0.569	5.431	24.827	0.045	29.394	5.205
Long-term Mitigation and Monitoring						
Exhaust	0.000	0.000	0.000	0.000	0.000	0.000
Fugitive	-	-	-	-	0.004	0.001
Haul Trucks	0.000	0.000	0.000	0.000	0.000	0.000
Crew	0.005	0.009	0.115	2.6E-04	4.1E-04	3.8E-04
Total	0.005	0.009	0.115	2.6E-04	0.004	0.001

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Clean-up - Mitigated

Overall Site Cleanup Emissions

Table 7-7: Overall Cleanup Annual Onsite Emissions

Annual Emissions (Tons/year)

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5
Boeing						
Exhaust	0.113	0.987	5.066	0.009	0.013	0.013
Fugitive	-	-	-	-	4.221	0.512
Haul Trucks	0.010	0.237	0.317	0.001	0.000	0.000
Crew	0.001	0.003	0.031	6.9E-05	1.1E-04	1.0E-04
Total	0.124	1.227	5.413	0.010	4.234	0.525
DOE						
Exhaust	0.064	0.468	2.900	0.005	0.008	0.008
Fugitive	-	-	-	-	3.940	0.735
Haul Trucks	0.010	0.237	0.317	0.001	0.000	0.000
Crew	4.3E-04	0.001	0.010	2.3E-05	3.7E-05	3.4E-05
Total	0.074	0.706	3.228	0.006	3.948	0.743
NASA						
Exhaust	0.064	0.468	2.900	0.005	0.008	0.008
Fugitive	-	-	-	-	3.813	0.669
Haul Trucks	0.010	0.237	0.317	0.001	0.000	0.000
Crew	4.3E-04	0.001	0.010	2.3E-05	3.7E-05	3.4E-05
Total	0.074	0.706	3.228	0.006	3.821	0.677
Long-term Mitigation and Monitoring						
Exhaust	0.000	0.000	0.000	0.000	0.000	0.000
Fugitive	-	-	-	-	0.001	0.000
Haul Trucks	0.000	0.000	0.000	0.000	0.000	0.000
Crew	0.001	0.001	0.015	3.3E-05	5.4E-05	4.9E-05
Total	0.001	0.001	0.015	3.3E-05	0.001	0.000

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Clean-up - Mitigated

Overall Site Cleanup Emissions

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-11.
- Daily emssions (Fugitive) (lbs/day) - Taken from Tables 7-8 and 7-9.
- Daily emssions (haul trucks) (lbs/day) =
  [(Emission Factorexhaust X number of trips X Miles) x (Emission Factoridle X number of minutes X number of trucks)] / 453.6
  - Emission Factors from Table 1-4.
  - Number of Trips from Table 1-11
  - **4** miles/ round trip
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
- Daily emssions (crew (onsite worker transport)) (lbs/day) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 1-11.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
- Total Daily Emissions (lbs/day) for each criteria pollutant is the sume of the daily exhaust, fugitive, haul truck, and crew emissions.
- Annual emssions (Tons/year) = (Daily Emissions * Number of Days)/2000
  - Daily Emissions from Table 7-6.
  - 2,000.00 lbs/ton
  - 260 days per year
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623
  - Daily Emissions from Table 7-6.
  - 2,204.62 lbs per Metric Ton
  - 260 days per year

Santa Susana Field Laboratory
Overall Site Clean-up - Mitigated

Onsite Fugitive Emissions

Table 7-8: Overall Cleanup Daily Fugitive Emissions

	Acres	#	Tons/truck	# Trucks	PM10	PM2.5
Maximum (lbs/day) - Boeing						
Scrapers/graders	2	N/A	N/A	N/A	0.658	0.071
Dozers/Excavators	N/A	4.00	N/A	N/A	7.467	1.324
Truck Loading	N/A	N/A	N/A	N/A	0.163	0.025
Total					***8.288***	***1.420***
Maximum (lbs/day) - DOE						
Scrapers	1	N/A	N/A	N/A	0.393	0.042
Dozers/Excavators	N/A	2.50	N/A	N/A	5.578	3.066
Truck Loading	N/A	N/A	N/A	N/A	0.163	0.025
Total					***6.134***	***3.133***
Maximum (lbs/day) - NASA						
Scrapers	1	N/A	N/A	N/A	0.329	0.035
Dozers/Excavators	N/A	2.50	N/A	N/A	4.667	2.565
Truck Loading	N/A	N/A	N/A	N/A	0.163	0.025
Total					***5.159***	***2.626***

*Totals may not add exactly due to rounding.

Table 7-9 Overall Cleanup Fugitive Dust from Unpaved Roads
Maximum Daily Emissions (lbs/day)

	# Miles							
	Unpaved	Paved	# Trucks	PM10	PM2.5	# Vans	PM10	PM2.5
Boeing	1	3	32	24.171	2.518	10	0.008	0.002
DOE	1	3	32	24.171	2.518	4	0.003	0.001
NASA	1	3	32	24.171	2.518	4	0.003	0.001
Long-term Mitigation and Monitoring	1	3	0	0.000	0.000	5	0.004	0.001

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Boeing

Table 7-10: Offsite Overall - Boeing Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	300	9,396	0.451	1.737	18.482	0.063	7.505	1.867
SCAQMD	8.68	300	2,604	0.125	0.481	5.122	0.017	2.080	0.517
total[1]	40	300	12,000	0.576	2.218	23.605	0.080	9.585	2.385
VCAPCD	0.42	300	126	0.006	0.023	0.248	0.001	0.101	0.025
SCAQMD	39.58	300	11,874	0.570	2.195	23.357	0.079	9.484	2.360
total[1]	40	300	12,000	0.576	2.218	23.605	0.080	9.585	2.385
				tons/year					
Worker Commute				**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
VCAPCD	31.32	78,000	2,442,960	0.059	0.226	2.403	0.008	0.976	0.243
SCAQMD	8.68	78,000	677,040	0.016	0.063	0.666	0.002	0.270	0.067
total[1]	40	78,000	3,120,000	0.075	0.288	3.069	0.010	1.246	0.310
VCAPCD	0.42	78,000	32,760	0.001	0.003	0.032	1.1E-04	0.013	0.003
SCAQMD	39.58	78,000	3,087,240	0.074	0.285	3.036	0.010	1.233	0.307
total[1]	40	78,000	3,120,000	0.075	0.288	3.069	0.010	1.246	0.310

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Boeing

Table 7-11: Offsite Overall - Boeing Haul Emissions (lbs/day)

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	64	659	0.042	0.691	0.284	0.023	4.758	1.172
SCAQMD	67.58	64	4,325	0.275	4.538	1.865	0.153	31.251	7.699
Other CA	37.13	64	2,376	0.151	2.493	1.025	0.084	17.170	4.230
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	115	64	7360	0.468	7.722	3.174	0.260	53.180	13.101
Hazardous									
VCAPCD	0.42	64	27	0.002	0.027	0.010	0.001	0.194	0.048
SCAQMD	124.58	64	7,973	0.469	7.879	2.941	0.281	57.609	14.192
Other CA	166	64	10,624	0.624	10.499	3.919	0.375	76.763	18.910
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	64	18624	1.095	18.404	6.871	0.657	134.567	33.150
Radiological Soil									
VCAPCD	0.42	64	27	0.002	0.026	0.009	0.001	0.194	0.048
SCAQMD	92.52	64	5,921	0.337	5.714	2.044	0.209	42.784	10.539
Other CA	162.93	64	10,428	0.593	10.062	3.599	0.368	75.343	18.560
Non-CA	442.13	64	28,296	1.610	27.305	9.767	0.998	204.453	50.365
Total	698	64	44672	2.542	43.108	15.419	1.576	322.774	79.513
Maximum Emissions									
VCAPCD				0.042	0.691	0.284	0.023	4.758	1.172
SCAQMD				0.469	7.879	2.941	0.281	57.609	14.192
Other CA				0.624	10.499	3.919	0.375	76.763	18.910
Non-CA				1.610	27.305	9.767	0.998	204.453	50.365
Total				2.745	46.374	16.912	1.677	343.584	84.639
Maximum Emissions by Air Basin									
SCCAB	10.29	64	659	0.042	0.691	0.284	0.023	4.758	1.172
SCAB	124.58	64	7,973	0.507	8.365	3.439	0.281	57.610	14.192
SSAB	48.40	64	3,098	0.197	3.250	1.336	0.109	22.382	5.514
MDAB	198.21	64	12,685	0.807	13.309	5.471	0.447	91.659	22.580
SJVAB	297.36	64	19,031	1.211	19.966	8.208	0.671	137.509	33.875
GBVAB	156.57	64	10,020	0.638	10.513	4.322	0.353	72.403	17.837
SACVAB	227.09	64	14,534	0.925	15.248	6.268	0.513	105.014	25.870
NEPAB	65.74	64	4,207	0.268	4.414	1.815	0.148	30.400	7.489
Outside CA	1495.00	64	95,680	6.090	100.382	41.266	3.375	691.337	170.311

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Boeing

Table 7-12: Offsite Overall - Boeing Haul Emissions (tons/year)

				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	7,616	78,369	0.002	0.041	0.017	0.001	0.283	0.069
SCAQMD	67.58	7,616	514,689	0.016	0.270	0.111	0.009	1.857	0.456
Other CA	37.13	7,616	282,782	0.009	0.148	0.061	0.005	1.020	0.250
Non-CA	0	7,616	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	115	7,616	875,840	0.028	0.459	0.189	0.015	3.160	0.776
Hazardous									
VCAPCD	0.42	7,040	2,957	8.7E-05	0.001	0.001	5.2E-05	0.011	0.003
SCAQMD	124.58	7,040	877,043	0.026	0.433	0.162	0.015	3.165	0.777
Other CA	166	7,040	1,168,640	0.034	0.577	0.216	0.021	4.217	1.035
Non-CA	0	7,040	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	291	7,040	2,048,640	0.060	1.012	0.378	0.036	7.392	1.814
Radiological Soil									
VCAPCD	0.42	1,984	833	2.4E-05	0.000	1.4E-04	1.5E-05	0.003	0.001
SCAQMD	92.52	1,984	183,560	0.005	0.089	0.032	0.003	0.662	0.163
Other CA	162.93	1,984	323,253	0.009	0.156	0.056	0.006	1.166	0.286
Non-CA	442.13	1,984	877,186	0.025	0.423	0.151	0.015	3.165	0.777
Total	698	1,984	1,384,832	0.039	0.668	0.239	0.024	4.997	1.226
Total Tons/year									
VCAPCD				0.003	0.043	0.018	0.001	0.296	0.073
SCAQMD				0.047	0.792	0.304	0.028	5.684	1.395
Other CA				0.053	0.882	0.332	0.031	6.403	1.572
Non-CA				0.025	0.423	0.151	0.015	3.165	0.777
Total				0.127	2.140	0.806	0.076	15.549	3.817
Maximum Emissions by Air Basin									
SCCAB				0.003	0.043	0.018	0.001	0.296	0.073
SCAB				0.047	0.792	0.304	0.028	5.684	1.395
SSAB				0.022	0.362	0.142	0.013	2.559	0.628
Non-Hazardous	48.40	7,616	368,614	0.012	0.193	0.079	0.007	1.330	0.326
Hazardous	48.40	7,040	340,736	0.010	0.168	0.063	0.006	1.229	0.302
Radiological	0.00	1,984	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB				0.100	1.671	0.651	0.058	11.901	2.921
Non-Hazardous	198.21	7,616	1,509,567	0.048	0.792	0.326	0.027	5.447	1.337
Hazardous	198.21	7,040	1,395,398	0.041	0.689	0.257	0.025	5.035	1.236
Radiological	198.21	1,984	393,249	0.011	0.190	0.068	0.007	1.419	0.348
SJVAB				0.150	2.507	0.976	0.087	17.854	4.382
Non-Hazardous	297.36	7,616	2,264,694	0.072	1.188	0.488	0.040	8.171	2.006
Hazardous	297.36	7,040	2,093,414	0.062	1.034	0.386	0.037	7.553	1.854
Radiological	297.36	1,984	589,962	0.017	0.285	0.102	0.010	2.129	0.523
GBVAB				0.079	1.320	0.514	0.046	9.401	2.307
Non-Hazardous	156.57	7,616	1,192,437	0.038	0.626	0.257	0.021	4.303	1.056
Hazardous	156.57	7,040	1,102,253	0.032	0.545	0.203	0.019	3.977	0.976
Radiological	156.57	1,984	310,635	0.009	0.150	0.054	0.005	1.121	0.275
SACVAB				0.115	1.915	0.746	0.067	13.635	3.347
Non-Hazardous	227.09	7,616	1,729,517	0.055	0.907	0.373	0.031	6.240	1.532
Hazardous	227.09	7,040	1,598,714	0.047	0.790	0.295	0.028	5.768	1.416
Radiological	227.09	1,984	450,547	0.013	0.217	0.078	0.008	1.626	0.399
NEPAB				0.033	0.554	0.216	0.019	3.947	0.969
Non-Hazardous	65.74	7,616	500,676	0.016	0.263	0.108	0.009	1.807	0.443
Hazardous	65.74	7,040	462,810	0.014	0.229	0.085	0.008	1.670	0.410
Radiological	65.74	1,984	130,428	0.004	0.063	0.023	0.002	0.471	0.116
Outside CA				0.720	11.999	4.692	0.417	85.236	20.921
Non-Hazardous	1495.00	7,616	11,385,920	0.362	5.973	2.455	0.201	41.083	10.084
Hazardous	1495.00	7,040	10,524,800	0.309	5.200	1.941	0.186	37.976	9.321
Radiological	862.88	1,984	1,711,954	0.049	0.826	0.295	0.030	6.177	1.516

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

DOE

Table 7-13: Offsite Overall - DOE Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	100	3,132	0.150	0.579	6.161	0.021	2.502	0.622
SCAQMD	8.68	100	868	0.042	0.160	1.707	0.006	0.693	0.172
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
VCAPCD	0.42	100	42	0.002	0.008	0.083	2.8E-04	0.034	0.008
SCAQMD	39.58	100	3,958	0.190	0.732	7.786	0.026	3.161	0.787
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	26,000	814,320	0.020	0.075	0.801	0.003	0.325	0.081
SCAQMD	8.68	26,000	225,680	0.005	0.021	0.222	0.001	0.090	0.022
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103
VCAPCD	0.42	26,000	10,920	2.6E-04	0.001	0.011	3.6E-05	0.004	0.001
SCAQMD	39.58	26,000	1,029,080	0.025	0.095	1.012	0.003	0.411	0.102
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

DOE

Table 7-14: Offsite Overall - DOE Haul Emissions (lbs/day)

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	0.42	64	27	0.002	0.028	0.011	0.001	0.194	0.048
SCAQMD	67.58	64	4,325	0.273	4.503	1.830	0.153	31.251	7.699
Other CA	57	64	3,648	0.230	3.798	1.543	0.129	26.359	6.493
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	64	8,000	0.504	8.329	3.384	0.282	57.804	14.240
Hazardous									
VCAPCD	0.42	64	27	0.002	0.027	0.010	0.001	0.194	0.048
SCAQMD	124.58	64	7,973	0.476	7.967	3.031	0.281	57.609	14.192
Other CA	103	64	6,592	0.393	6.587	2.506	0.233	47.630	11.733
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	64	14,592	0.870	14.580	5.548	0.515	105.434	25.973
Radiological Soil									
VCAPCD	0.42	64	27	0.002	0.026	0.010	0.001	0.194	0.048
SCAQMD	45.78	64	2,930	0.171	2.879	1.065	0.103	21.170	5.215
Other CA	242.6	64	15,526	0.906	15.259	5.642	0.548	112.185	27.636
Non-CA	48.2	64	3,085	0.180	3.032	1.121	0.109	22.289	5.491
Total	337	64	21,568	1.258	21.196	7.837	0.761	155.838	38.390
Maximum Emissions									
VCAPCD				0.002	0.028	0.011	0.001	0.194	0.048
SCAQMD				0.476	7.967	3.031	0.281	57.609	14.192
Other CA				0.906	15.259	5.642	0.548	112.185	27.636
Non-CA				0.180	3.032	1.121	0.109	22.289	5.491
Total				1.258	21.196	7.837	0.761	155.838	38.390
Maximum Emissions by Air Basin									
SCCAB	17.84	64	1,142	0.072	1.189	0.483	0.040	8.250	2.032
SCAB	124.58	64	7,973	0.502	8.301	3.373	0.281	57.610	14.192
SSAB	138.00	64	8,832	0.556	9.195	3.736	0.312	63.816	15.721
MDAB	198.21	64	12,685	0.799	13.207	5.366	0.447	91.659	22.580
SJVAB	71.00	64	4,544	0.286	4.731	1.922	0.160	32.833	8.088
GBVAB	142.64	64	9,129	0.575	9.504	3.862	0.322	65.961	16.250
SACVAB	0.00	64	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB	0.00	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA	670.88	64	42,936	2.705	44.700	18.164	1.515	310.237	76.427

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

DOE

Table 7-15: Offsite Overall - DOE Haul Emissions (tons/year)

				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	0.42	12,483	5,243	0.000	0.003	0.001	9.2E-05	0.019	0.005
SCAQMD	67.58	12,483	843,578	0.027	0.439	0.178	0.015	3.044	0.747
Other CA	57	12,483	711,511	0.022	0.370	0.150	0.013	2.567	0.630
Non-CA	0	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	125	12,483	1,560,331	0.049	0.812	0.330	0.028	5.630	1.382
Hazardous									
VCAPCD	0.42	545	229	0.000	0.000	4.4E-05	4.0E-06	0.001	0.000
SCAQMD	124.58	545	67,926	0.002	0.034	0.013	0.001	0.245	0.060
Other CA	103	545	56,160	0.002	0.028	0.011	0.001	0.203	0.050
Non-CA	0	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	228	545	124,315	0.004	0.062	0.024	0.002	0.449	0.110
Radiological Soil									
VCAPCD	0.42	1,012	425	0.000	0.000	7.7E-05	7.5E-06	0.002	0.000
SCAQMD	45.78	1,012	46,334	0.001	0.023	0.008	0.001	0.167	0.041
Other CA	242.6	1,012	245,537	0.007	0.121	0.045	0.004	0.886	0.217
Non-CA	48.2	1,012	48,784	0.001	0.024	0.009	0.001	0.176	0.043
Total	337	1,012	341,080	0.010	0.168	0.062	0.006	1.231	0.302
Total Tons/year									
VCAPCD				0.000	0.003	0.001	1.0E-04	2.1E-02	5.2E-03
SCAQMD				0.030	0.496	0.200	0.017	3.456	0.848
Other CA				0.031	0.519	0.206	0.018	3.656	0.897
Non-CA				0.001	0.024	0.009	0.001	0.176	0.043
Total				0.063	1.042	0.416	0.036	7.309	1.794
Maximum Emissions by Air Basin									
SCCAB				0.000	0.003	0.001	1.0E-04	2.1E-02	5.2E-03
SCAB				0.030	0.496	0.200	0.017	3.456	0.848
SSAB				0.056	0.925	0.375	0.031	6.418	1.575
Non-Hazardous	138.00	12,483	1,722,606	0.054	0.897	0.364	0.030	6.216	1.526
Hazardous	103.00	545	56,160	0.002	0.028	0.011	0.001	0.203	0.050
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB				0.086	1.431	0.577	0.049	9.972	2.448
Non-Hazardous	198.21	12,483	2,474,186	0.078	1.288	0.523	0.044	8.927	2.191
Hazardous	162.93	545	88,836	0.003	0.044	0.017	0.002	0.321	0.079
Radiological	198.21	1,012	200,610	0.006	0.099	0.036	0.004	0.724	0.178
SJVAB				0.029	0.477	0.193	0.016	3.310	0.812
Non-Hazardous	71.00	12,483	886,268	0.028	0.461	0.187	0.016	3.198	0.785
Hazardous	57.00	545	31,079	0.001	0.016	0.006	0.001	0.112	0.028
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
GBVAB				0.004	0.071	0.026	0.003	0.521	0.128
Non-Hazardous	0.00	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	142.64	1,012	144,367	0.004	0.071	0.026	0.003	0.521	0.128
SACVAB				0.000	0.000	0.000	0.000	0.000	0.000
Non-Hazardous	0.00	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
NEPAB				0.000	0.000	0.000	0.000	0.000	0.000
Non-Hazardous	0.00	12,483	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	545	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	0.00	1,012	0	0.000	0.000	0.000	0.000	0.000	0.000
Outside CA				0.292	4.829	1.947	0.164	33.650	8.260
Non-Hazardous	670.88	12,483	8,374,361	0.264	4.359	1.771	0.148	30.216	7.417
Hazardous	499.91	545	272,572	0.008	0.136	0.052	0.005	0.983	0.241
Radiological	670.88	1,012	679,002	0.020	0.334	0.123	0.012	2.450	0.601

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

NASA

Table 7-16: Offsite Overall - NASA Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**$PM10^2$**	**$PM2.5^2$**
Worker Commute									
VCAPCD	31.32	100	3,132	0.150	0.579	6.161	0.021	2.502	0.622
SCAQMD	8.68	100	868	0.042	0.160	1.707	0.006	0.693	0.172
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
VCAPCD	0.42	100	42	0.002	0.008	0.083	0.000	0.034	0.008
SCAQMD	39.58	100	3,958	0.190	0.732	7.786	0.026	3.161	0.787
total[1]	40	100	4,000	0.192	0.739	7.868	0.027	3.195	0.795
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	26,000	814,320	0.020	0.075	0.801	0.003	0.325	0.081
SCAQMD	8.68	26,000	225,680	0.005	0.021	0.222	0.001	0.090	0.022
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103
VCAPCD	0.42	26,000	10,920	2.6E-04	0.001	0.011	3.6E-05	0.004	0.001
SCAQMD	39.58	26,000	1,029,080	0.025	0.095	1.012	0.003	0.411	0.102
total[1]	40	26,000	1,040,000	0.025	0.096	1.023	0.003	0.415	0.103

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

NASA

Table 7-17: Offsite Overall - NASA Haul Emissions (lbs/day)

				lbs/day					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	64	659	0.043	0.702	0.296	0.023	4.758	1.172
SCAQMD	53.58	64	3,429	0.223	3.658	1.540	0.121	24.777	6.104
Other CA	34.13	64	2,184	0.142	2.330	0.981	0.077	15.783	3.888
Non-CA	0	64	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	64	6,272	0.408	6.690	2.817	0.221	45.319	11.164
Hazardous									
VCAPCD	0.42	64	27	0.002	0.026	0.010	0.001	0.194	0.048
SCAQMD	124.58	64	7,973	0.466	7.847	2.908	0.281	57.609	14.192
Other CA	172.39	64	11,033	0.645	10.858	4.025	0.389	79.718	19.638
Non-CA	26.61	64	1,703	0.100	1.676	0.621	0.060	12.305	3.031
Total	324	64	20,736	1.212	20.407	7.564	0.731	149.827	36.909
Radiological Soil									
VCAPCD	0.42	64	27	0.002	0.026	0.009	0.001	0.194	0.048
SCAQMD	92.52	64	5,921	0.337	5.714	2.044	0.209	42.784	10.539
Other CA	305.57	64	19,556	1.113	18.872	6.750	0.690	141.304	34.809
Non-CA	299.49	64	19,167	1.091	18.496	6.616	0.676	138.492	34.116
Total	698	64	44,672	2.542	43.108	15.419	1.576	322.774	79.513
Maximum Emissions									
VCAPCD				0.043	0.702	0.296	0.023	4.758	1.172
SCAQMD				0.466	7.847	2.908	0.281	57.609	14.192
Other CA				1.113	18.872	6.750	0.690	141.304	34.809
Non-CA				1.091	18.496	6.616	0.676	138.492	34.116
Total				2.713	45.917	16.570	1.670	342.164	84.290
Maximum Emissions by Air Basin									
SCCAB	0.42	64	27	0.002	0.029	0.012	0.001	0.194	0.048
SCAB	124.58	64	7,973	0.519	8.504	3.581	0.281	57.610	14.192
SSAB	48.40	64	3,098	0.202	3.304	1.391	0.109	22.382	5.514
MDAB	198.21	64	12,685	0.825	13.531	5.698	0.447	91.659	22.580
SJVAB	297.36	64	19,031	1.238	20.299	8.548	0.671	137.509	33.876
GBVAB	156.57	64	10,020	0.652	10.688	4.501	0.353	72.403	17.837
SACVAB	227.09	64	14,534	0.945	15.502	6.528	0.513	105.014	25.870
NEPAB	65.74	64	4,207	0.274	4.488	1.890	0.148	30.400	7.489
Outside CA	862.88	64	55,224	3.592	58.904	24.805	1.948	399.025	98.301

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

NASA

Table 7-18: Offsite Overall - NASA Haul Emissions (tons/year)

				Tons/year					
	Miles/trip	**Trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
Non-Hazardous									
VCAPCD	10.29	2,299	23,657	0.001	0.013	0.005	4.2E-04	0.085	0.021
SCAQMD	53.58	2,299	123,180	0.004	0.066	0.028	0.002	0.444	0.109
Other CA	34.13	2,299	78,465	0.003	0.042	0.018	0.001	0.283	0.069
Non-CA	0	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Total	98	2,299	225,302	0.007	0.120	0.051	0.004	0.813	0.200
Hazardous									
VCAPCD	0.42	10,816	4,543	1.3E-04	0.002	0.001	8.0E-05	0.016	0.004
SCAQMD	124.58	10,816	1,347,457	0.039	0.663	0.246	0.024	4.862	1.193
Other CA	172.39	10,816	1,864,570	0.054	0.918	0.340	0.033	6.728	1.651
Non-CA	26.61	10,816	287,814	0.008	0.142	0.052	0.005	1.038	0.255
Total	324	10,816	3,504,384	0.102	1.724	0.639	0.062	12.645	3.104
Radiological Soil									
VCAPCD	0.42	405	170	4.8E-06	0.000	2.9E-05	3.0E-06	0.001	0.000
SCAQMD	92.52	405	37,471	0.001	0.018	0.006	0.001	0.135	0.033
Other CA	305.57	405	123,757	0.004	0.060	0.021	0.002	0.447	0.110
Non-CA	299.49	405	121,295	0.003	0.059	0.021	0.002	0.438	0.107
Total	698	405	282,693	0.008	0.136	0.049	0.005	1.020	0.250
Total Tons/year									
VCAPCD				0.001	0.015	0.006	0.001	0.102	0.025
SCAQMD				0.044	0.747	0.280	0.027	5.442	1.336
Other CA				0.061	1.019	0.379	0.036	7.457	1.830
Non-CA				0.012	0.200	0.073	0.007	1.476	0.362
Total				0.118	1.981	0.739	0.071	14.478	3.554
Maximum Emissions by Air Basin									
SCCAB				0.001	0.015	0.006	0.001	0.102	0.025
SCAB				0.044	0.747	0.280	0.027	5.442	1.336
SSAB				0.019	0.317	0.120	0.011	2.290	0.562
Non-Hazardous	48.40	2,299	111,271	0.004	0.059	0.025	0.002	0.401	0.099
Hazardous	48.40	10,816	523,494	0.015	0.258	0.095	0.009	1.889	0.464
Radiological	0.00	405	0	0.000	0.000	0.000	0.000	0.000	0.000
MDAB				0.051	0.851	0.322	0.030	6.157	1.511
Non-Hazardous	123.99	2,299	285,052	0.009	0.152	0.064	0.005	1.029	0.252
Hazardous	123.99	10,816	1,341,076	0.039	0.660	0.245	0.024	4.839	1.188
Radiological	198.21	405	80,276	0.002	0.039	0.014	0.001	0.290	0.071
SJVAB				0.003	0.058	0.021	0.002	0.435	0.107
Non-Hazardous	0.00	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	10,816	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	297.36	405	120,432	0.003	0.058	0.021	0.002	0.435	0.107
GBVAB				0.053	0.891	0.338	0.032	6.447	1.582
Non-Hazardous	131.40	2,299	302,088	0.010	0.161	0.068	0.005	1.090	0.268
Hazardous	131.40	10,816	1,421,222	0.042	0.699	0.259	0.025	5.128	1.259
Radiological	156.57	405	63,412	0.002	0.031	0.011	0.001	0.229	0.056
SACVAB				0.003	0.044	0.016	0.002	0.332	0.081
Non-Hazardous	0.00	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	10,816	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	227.09	405	91,972	0.003	0.044	0.016	0.002	0.332	0.081
NEPAB				0.001	0.013	0.005	0.000	0.096	0.024
Non-Hazardous	0.00	2,299	0	0.000	0.000	0.000	0.000	0.000	0.000
Hazardous	0.00	10,816	0	0.000	0.000	0.000	0.000	0.000	0.000
Radiological	65.74	405	26,625	0.001	0.013	0.005	0.000	0.096	0.024
Outside CA				0.020	0.343	0.127	0.012	2.520	0.619
Non-Hazardous	26.61	2,299	61,176	0.002	0.033	0.014	0.001	0.221	0.054
Hazardous	26.61	10,816	287,814	0.008	0.142	0.052	0.005	1.038	0.255
Radiological	862.88	405	349,470	0.010	0.169	0.060	0.006	1.261	0.310

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Monitoring and Maintenance

Table 7-19: Offsite Overall - Monitoring & Maintenance Commuter Emissions

				lbs/day					
	Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10[2]**	**PM2.5[2]**
Worker Commute									
VCAPCD	31.32	144	4,510	0.217	0.834	8.872	0.030	3.602	0.896
SCAQMD	8.68	144	1,250	0.060	0.231	2.459	0.008	0.998	0.248
total[1]	40	144	5,760	0.277	1.065	11.330	0.038	4.601	1.145
VCAPCD	0.42	144	60	0.003	0.011	0.119	4.0E-04	0.048	0.012
SCAQMD	39.58	144	5,700	0.274	1.053	11.211	0.038	4.552	1.133
total[1]	40	144	5,760	0.277	1.065	11.330	0.038	4.601	1.145
				tons/year					
Worker Commute				**VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**
VCAPCD	31.32	37,440	1,172,621	0.028	0.108	1.153	0.004	0.468	0.117
SCAQMD	8.68	37,440	324,979	0.008	0.030	0.320	0.001	0.130	0.032
total[1]	40	37,440	1,497,600	0.036	0.138	1.473	0.005	0.598	0.149
VCAPCD	0.42	37,440	15,725	3.8E-04	0.001	0.015	5.3E-05	0.006	0.002
SCAQMD	39.58	37,440	1,481,875	0.036	0.137	1.457	0.005	0.592	0.147
total[1]	40	37,440	1,497,600	0.036	0.138	1.473	0.005	0.598	0.149

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

[2] PM10 and PM2.5 emissions include fugitive road dust

Santa Susana Field Laboratory
Air Quality Appendix
Section 8
EMFAC2014 Output Files

Section 8

Commuter Vehicles

Santa Susana Field Laboratory
EMFAC2014 Emission Rates for Commuter Vehicles

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Ventura
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	ROG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX
Ventura	2017	LDA	Aggregated	Aggregated	GAS	287278.899	10294775.7	1806917.98	0.021785396	0.892253947	0.083839671	301.9987168

PM10_RUNEX	PM2_5_RUNEX	SOx_RUNEX
0.001801873	0.00165847	0.003029361

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Ventura
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX
Ventura	2017	LDA	Aggregated	15	GAS	141005.283	0.055925044	1.355542485	0.111489765	556.1074444

PM10_RUNEX	PM2_5_RUNEX	SOx_RUNEX
0.004880879	0.004491339	0.003029361

Section 8

Standard (Aggregated) Fleet Mix

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Ventura
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Ventura	2017	HHDT	Aggregated	5	DSL	887.001275	1.48580156	9.8739028	13.7971237	23.3261447	5677.35609	0.07706576	0.07373193
Ventura	2017	HHDT	Aggregated	10	DSL	2304.63981	1.16280096	7.24646071	10.6352826	19.1164909	4928.59009	0.07118266	0.06810333
Ventura	2017	HHDT	Aggregated	15	DSL	2555.65701	0.7514372	2.34369791	4.64569566	12.7153371	3125.87054	0.08151461	0.07798832
Ventura	2017	HHDT	Aggregated	20	DSL	14892.0955	0.54374019	0.76251847	2.21300678	10.0003301	2268.4725	0.12067874	0.11545823
Ventura	2017	HHDT	Aggregated	25	DSL	13312.8451	0.35684727	0.57439643	1.7198405	7.57602849	2069.04745	0.06138724	0.05873165
Ventura	2017	HHDT	Aggregated	30	DSL	23785.4714	0.27419582	0.39185338	1.24312338	6.60382181	1894.89129	0.05595988	0.05353908
Ventura	2017	HHDT	Aggregated	35	DSL	24422.0101	0.20580136	0.37960176	1.08448775	6.21870777	1895.29085	0.04866502	0.0465598
Ventura	2017	HHDT	Aggregated	40	DSL	32740.9369	0.16216554	0.24453595	0.76800519	5.62757479	1731.21793	0.04772666	0.04566202
Ventura	2017	HHDT	Aggregated	45	DSL	29778.4411	0.12884297	0.18918789	0.6013381	5.30594136	1653.16537	0.04683221	0.04480627
Ventura	2017	HHDT	Aggregated	50	DSL	28019.7961	0.10678627	0.13467224	0.46398518	4.95672682	1548.09729	0.04873274	0.04662458
Ventura	2017	HHDT	Aggregated	55	DSL	30354.8915	0.09261669	0.10543706	0.38305636	4.73482042	1479.25462	0.05207256	0.04981993
Ventura	2017	HHDT	Aggregated	60	DSL	47746.5361	0.08843046	0.10067135	0.35868199	4.68687275	1461.62139	0.05401728	0.05168051
Ventura	2017	HHDT	Aggregated	65	DSL	60087.9091	0.08843046	0.10067135	0.35868199	4.70845383	1461.62139	0.05401728	0.05168051
Ventura	2017	HHDT	Aggregated	70	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Los Angeles
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Los Angeles	2017	HHDT	Aggregated	5	DSL	45104.7382	1.35699201	3.58200326	8.28438337	20.4479755	4058.39811	0.05954718	0.05697119
Los Angeles	2017	HHDT	Aggregated	10	DSL	100069.975	1.06858796	2.97068987	6.90072186	17.0464842	3666.68513	0.05678543	0.05432891
Los Angeles	2017	HHDT	Aggregated	15	DSL	143726.299	0.75106205	1.22121483	3.32947983	12.0599904	2651.77496	0.05637069	0.05393212
Los Angeles	2017	HHDT	Aggregated	20	DSL	338699.609	0.49834846	0.6636789	2.06256312	9.07554659	2200.53785	0.07104963	0.06797605
Los Angeles	2017	HHDT	Aggregated	25	DSL	480141.975	0.34582361	0.46600156	1.51127504	7.15056256	1992.30932	0.04450467	0.04257942
Los Angeles	2017	HHDT	Aggregated	30	DSL	655763.528	0.2610506	0.34190923	1.12361071	6.22385001	1857.87027	0.04018584	0.03844741
Los Angeles	2017	HHDT	Aggregated	35	DSL	536422.329	0.19377814	0.32255721	0.98497813	5.7899427	1842.18039	0.03550577	0.03396981
Los Angeles	2017	HHDT	Aggregated	40	DSL	542431.145	0.14914736	0.22486478	0.70801786	5.29399403	1724.43329	0.03385105	0.03238667
Los Angeles	2017	HHDT	Aggregated	45	DSL	531906.314	0.1161429	0.1673051	0.53345654	4.99731297	1644.09438	0.03317538	0.03174023
Los Angeles	2017	HHDT	Aggregated	50	DSL	469883.293	0.09205977	0.11555566	0.39442713	4.63942124	1542.914	0.03449461	0.03300238
Los Angeles	2017	HHDT	Aggregated	55	DSL	600019.018	0.07531911	0.08574508	0.29414994	4.63530672	1488.51955	0.03369308	0.03223553
Los Angeles	2017	HHDT	Aggregated	60	DSL	1127654.14	0.06974329	0.07939743	0.27912061	4.43665618	1459.95398	0.03668844	0.03510132
Los Angeles	2017	HHDT	Aggregated	65	DSL	654520.465	0.07141081	0.08129577	0.2967293	4.21540421	1446.13345	0.03997298	0.03824377
Los Angeles	2017	HHDT	Aggregated	70	DSL	6795.85409	0.06010741	0.06842771	0.26134328	3.4685934	1428.19705	0.03153274	0.03016865
Los Angeles	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
Los Angeles	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
Los Angeles	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
Los Angeles	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Imperial
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Imperial	2017	HHDT	Aggregated	5	DSL	121.97327	0.45661594	1.75464651	4.8890048	18.0335298	6206.25187	0.03640542	0.03483054
Imperial	2017	HHDT	Aggregated	10	DSL	234.944973	0.20612287	1.48241694	4.05972697	14.6820028	6226.24653	0.02246603	0.02149416
Imperial	2017	HHDT	Aggregated	15	DSL	107.299601	0.14133239	1.04027945	2.85886401	10.6454176	5181.21435	0.01749562	0.01673877
Imperial	2017	HHDT	Aggregated	20	DSL	3468.23946	0.51401691	0.60325048	1.85626936	9.50808623	2268.94279	0.1007556	0.09639696
Imperial	2017	HHDT	Aggregated	25	DSL	3129.05923	0.31477503	0.37956951	1.34882916	6.63102114	2009.62018	0.03605191	0.03449232
Imperial	2017	HHDT	Aggregated	30	DSL	12419.0396	0.24224344	0.28020172	1.01188614	5.61502733	1818.90682	0.03351378	0.03206398
Imperial	2017	HHDT	Aggregated	35	DSL	18214.3017	0.18095783	0.2115025	0.7670425	4.97627005	1737.90201	0.03094551	0.02960682
Imperial	2017	HHDT	Aggregated	40	DSL	31277.2709	0.13833383	0.15918025	0.58516259	4.50040741	1633.85153	0.02971011	0.02842487
Imperial	2017	HHDT	Aggregated	45	DSL	45580.0026	0.10622583	0.12163028	0.45225775	4.16359238	1559.2824	0.02914386	0.02788311
Imperial	2017	HHDT	Aggregated	50	DSL	52656.4426	0.08314022	0.09480429	0.35601615	3.90851094	1495.71653	0.02940546	0.02813339
Imperial	2017	HHDT	Aggregated	55	DSL	120747.524	0.06698744	0.07626011	0.28773767	3.72367692	1451.61437	0.03046609	0.02914814
Imperial	2017	HHDT	Aggregated	60	DSL	60459.2168	0.06114587	0.06960992	0.26176785	3.64722368	1433.20186	0.03125911	0.02990686
Imperial	2017	HHDT	Aggregated	65	DSL	317640.4	0.06114587	0.06960992	0.26176785	3.65263333	1433.20186	0.03125911	0.02990686
Imperial	2017	HHDT	Aggregated	70	DSL	6409.60765	0.06114587	0.06960992	0.26176785	3.66617892	1433.20186	0.03125911	0.02990686
Imperial	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
Imperial	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
Imperial	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
Imperial	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Inyo
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Inyo	2017	HHDT	Aggregated	5	DSL	268.971269	1.45451608	1.65585584	4.42143198	21.5336118	3470.70732	0.14177296	0.13563992
Inyo	2017	HHDT	Aggregated	10	DSL	1006.52177	1.17180226	1.33400767	3.68789261	17.314718	3007.14295	0.12426535	0.11888968
Inyo	2017	HHDT	Aggregated	15	DSL	1203.74946	0.75113708	0.85511239	2.65929282	12.0057497	2437.68189	0.09467509	0.09057949
Inyo	2017	HHDT	Aggregated	20	DSL	3052.40563	0.50496671	0.57486617	1.97093257	9.258464	2112.81466	0.08675724	0.08300416
Inyo	2017	HHDT	Aggregated	25	DSL	2703.72561	0.34910245	0.39742657	1.46387759	6.90379365	1923.35555	0.06261414	0.05990548
Inyo	2017	HHDT	Aggregated	30	DSL	4552.45344	0.26730112	0.30430198	1.1308442	5.87592208	1795.75904	0.05666991	0.0542184
Inyo	2017	HHDT	Aggregated	35	DSL	8206.26482	0.20497986	0.23335397	0.87694165	5.22803683	1703.52317	0.05228047	0.05001884
Inyo	2017	HHDT	Aggregated	40	DSL	7730.92485	0.15949962	0.18157818	0.69063095	4.75600769	1619.71684	0.0497562	0.04760377
Inyo	2017	HHDT	Aggregated	45	DSL	10798.608	0.12661693	0.14414373	0.55371802	4.41351495	1547.84087	0.04893096	0.04681423
Inyo	2017	HHDT	Aggregated	50	DSL	11205.9628	0.10368742	0.11804024	0.45507172	4.15655004	1486.7582	0.04977882	0.04762541
Inyo	2017	HHDT	Aggregated	55	DSL	13650.0644	0.08873939	0.10102304	0.38666767	3.97436322	1444.76478	0.05228571	0.05002386
Inyo	2017	HHDT	Aggregated	60	DSL	4158.28648	0.08398755	0.09561343	0.36153604	3.91425887	1427.36811	0.05409151	0.05175153
Inyo	2017	HHDT	Aggregated	65	DSL	2277.57701	0.08398755	0.09561343	0.36153604	3.91436556	1427.36811	0.05409151	0.05175153
Inyo	2017	HHDT	Aggregated	70	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Kern
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Kern	2017	HHDT	Aggregated	5	DSL	13455.5863	1.3145557	1.7606211	4.41574927	20.492022	3505.407	0.09036974	0.08646039
Kern	2017	HHDT	Aggregated	10	DSL	49959.0396	1.05674071	1.33497254	3.61464917	16.5718049	3030.91931	0.07938741	0.07595314
Kern	2017	HHDT	Aggregated	15	DSL	64984.809	0.69643591	0.81973619	2.5590773	11.6441319	2450.79558	0.06155437	0.05889156
Kern	2017	HHDT	Aggregated	20	DSL	172325.687	0.47652299	0.54795381	1.86723503	8.74713445	2123.29368	0.05912436	0.05656667
Kern	2017	HHDT	Aggregated	25	DSL	134701.076	0.33913563	0.39370008	1.376852	6.78526206	1942.11332	0.04192469	0.04011105
Kern	2017	HHDT	Aggregated	30	DSL	242479.247	0.25531248	0.29444709	1.04224994	5.78720113	1810.80179	0.03794029	0.03629901
Kern	2017	HHDT	Aggregated	35	DSL	444001.881	0.19233253	0.22307004	0.79253259	5.15221878	1717.30458	0.03501397	0.03349928
Kern	2017	HHDT	Aggregated	40	DSL	441329.143	0.14642616	0.1691128	0.6091572	4.69509877	1631.89642	0.03332731	0.03188558
Kern	2017	HHDT	Aggregated	45	DSL	647001.384	0.11293541	0.12967515	0.47432722	4.36130839	1558.85941	0.03263171	0.03122008
Kern	2017	HHDT	Aggregated	50	DSL	683896.599	0.08917456	0.10182427	0.37689829	4.10566885	1496.93898	0.03298413	0.03155725
Kern	2017	HHDT	Aggregated	55	DSL	808069.116	0.07283377	0.08291571	0.30769175	3.90840437	1453.2148	0.03425195	0.03277023
Kern	2017	HHDT	Aggregated	60	DSL	253382.512	0.06730216	0.07661839	0.28206364	3.84740706	1434.91863	0.03532516	0.03379701
Kern	2017	HHDT	Aggregated	65	DSL	136422.422	0.0672721	0.07658417	0.28196593	3.84656177	1434.88756	0.0353043	0.03377705
Kern	2017	HHDT	Aggregated	70	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Kings
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Kings	2017	HHDT	Aggregated	5	DSL	2589.5372	1.37342865	1.72675648	4.50100944	20.4338716	3388.96254	0.099279	0.09498424
Kings	2017	HHDT	Aggregated	10	DSL	9747.68232	1.09852451	1.33084322	3.67909176	16.5695856	2962.70791	0.08649067	0.08274912
Kings	2017	HHDT	Aggregated	15	DSL	11733.7834	0.71683208	0.83355822	2.59922699	11.6969829	2435.42559	0.06602759	0.06317127
Kings	2017	HHDT	Aggregated	20	DSL	27874.6105	0.48594655	0.55713144	1.9227831	8.72340887	2111.52439	0.06292223	0.06020024
Kings	2017	HHDT	Aggregated	25	DSL	26398.3	0.34680667	0.39932834	1.40097068	6.85195457	1934.35228	0.04438163	0.0424617
Kings	2017	HHDT	Aggregated	30	DSL	44483.6754	0.26117085	0.29973717	1.0621359	5.86568415	1807.47268	0.04008364	0.03834964
Kings	2017	HHDT	Aggregated	35	DSL	80139.5014	0.19702807	0.22697681	0.80922941	5.22834135	1712.46484	0.03691205	0.03531526
Kings	2017	HHDT	Aggregated	40	DSL	75536.0158	0.14999226	0.17242173	0.62251039	4.77191022	1629.18891	0.03495211	0.0334401
Kings	2017	HHDT	Aggregated	45	DSL	105581.715	0.11584377	0.13268409	0.48537354	4.44397993	1558.11314	0.03410517	0.0326298
Kings	2017	HHDT	Aggregated	50	DSL	109634.739	0.09167299	0.10459039	0.38610576	4.18792063	1497.41038	0.03434823	0.03286234
Kings	2017	HHDT	Aggregated	55	DSL	133590.01	0.07531213	0.08573713	0.31615628	3.99454528	1454.32716	0.03567466	0.03413139
Kings	2017	HHDT	Aggregated	60	DSL	40696.1842	0.06970576	0.0793547	0.28979073	3.92884118	1435.87257	0.0366891	0.03510195
Kings	2017	HHDT	Aggregated	65	DSL	22290.1173	0.06970576	0.0793547	0.28979073	3.92948594	1435.87257	0.0366891	0.03510195
Kings	2017	HHDT	Aggregated	70	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: San Bernardino
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
San Bernardino	2017	HHDT	Aggregated	5	DSL	11228.502	1.36249556	3.26067216	7.74960897	20.4395269	4029.20768	0.0539067	0.05157472
San Bernardino	2017	HHDT	Aggregated	10	DSL	33427.8202	1.08326644	2.33068783	5.68055775	16.9037091	3443.5375	0.06361289	0.06086102
San Bernardino	2017	HHDT	Aggregated	15	DSL	33659.4705	0.76235379	1.19515043	3.27049854	12.1066264	2662.52987	0.05274182	0.05046023
San Bernardino	2017	HHDT	Aggregated	20	DSL	72975.9336	0.49028923	0.6518989	1.98299068	8.86552535	2213.76324	0.07696663	0.07363709
San Bernardino	2017	HHDT	Aggregated	25	DSL	102366.156	0.34374927	0.46242493	1.4937778	7.06424001	1997.61639	0.04201815	0.04020046
San Bernardino	2017	HHDT	Aggregated	30	DSL	156144.703	0.2565041	0.33136452	1.09457461	6.0560184	1853.92166	0.03735252	0.03573667
San Bernardino	2017	HHDT	Aggregated	35	DSL	154068.64	0.19083387	0.29159092	0.91694709	5.60044552	1816.08175	0.03425301	0.03277124
San Bernardino	2017	HHDT	Aggregated	40	DSL	167174.501	0.14636007	0.20401948	0.66315082	5.096195	1700.27908	0.0327109	0.03129584
San Bernardino	2017	HHDT	Aggregated	45	DSL	214534.399	0.11058362	0.14408305	0.48737183	4.58613532	1604.30424	0.03087359	0.02953802
San Bernardino	2017	HHDT	Aggregated	50	DSL	232336.65	0.08559498	0.10198617	0.36647597	4.16150769	1514.82669	0.03116283	0.02981474
San Bernardino	2017	HHDT	Aggregated	55	DSL	248469.763	0.0718376	0.08178164	0.28926464	4.29917333	1476.39489	0.03251528	0.03110868
San Bernardino	2017	HHDT	Aggregated	60	DSL	480659.775	0.06338153	0.07215505	0.26260748	3.96261759	1445.8773	0.03270922	0.03129423
San Bernardino	2017	HHDT	Aggregated	65	DSL	663412.137	0.0589547	0.06711544	0.25661431	3.48193954	1427.3107	0.03051529	0.02919521
San Bernardino	2017	HHDT	Aggregated	70	DSL	1036029.23	0.05371781	0.06115363	0.23928018	3.18837505	1418.84273	0.02618733	0.02505448
San Bernardino	2017	HHDT	Aggregated	75	DSL	0	0	0	0	0	0	0	0
San Bernardino	2017	HHDT	Aggregated	80	DSL	0	0	0	0	0	0	0	0
San Bernardino	2017	HHDT	Aggregated	85	DSL	0	0	0	0	0	0	0	0
San Bernardino	2017	HHDT	Aggregated	90	DSL	0	0	0	0	0	0	0	0

Section 8

2014 Vehicle Fleet

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Ventura
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW,

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_ RUNEX	TOG_ RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Ventura	2017	HHDT	2014	5	DSL	58.1767601	0.267456064	9.04723003	32.9678125	5.50080345	4402.31132	0.00608741	0.00582407
Ventura	2017	HHDT	2014	10	DSL	150.275619	0.229207089	6.84868668	25.0050021	4.78170142	3807.54728	0.00566079	0.0054159
Ventura	2017	HHDT	2014	15	DSL	159.561318	0.228948563	2.25763392	8.5215668	5.4936865	2582.03112	0.00607376	0.00581101
Ventura	2017	HHDT	2014	20	DSL	678.227058	0.176203116	0.5128369	2.16146492	3.4732499	1944.79773	0.00529709	0.00506794
Ventura	2017	HHDT	2014	25	DSL	811.909179	0.141372982	0.43714176	1.82639572	2.24569566	1805.99781	0.00547771	0.00524075
Ventura	2017	HHDT	2014	30	DSL	1446.2298	0.106102967	0.24913874	1.08731516	1.47676354	1670.01523	0.00510942	0.00488839
Ventura	2017	HHDT	2014	35	DSL	1495.62689	0.074831828	0.31121017	1.25332921	0.97255768	1668.06733	0.00459837	0.00439945
Ventura	2017	HHDT	2014	40	DSL	1993.72828	0.057103445	0.15494848	0.66009044	0.74934583	1539.65688	0.00440142	0.00421102
Ventura	2017	HHDT	2014	45	DSL	1812.09393	0.042254859	0.10758461	0.46305481	0.5796424	1475.91944	0.00414097	0.00396183
Ventura	2017	HHDT	2014	50	DSL	1698.70755	0.031842942	0.05252593	0.24645685	0.47160306	1389.44942	0.00396068	0.00378934
Ventura	2017	HHDT	2014	55	DSL	1836.22302	0.023772416	0.02706309	0.14037059	0.39023436	1330.62896	0.00377351	0.00361027
Ventura	2017	HHDT	2014	60	DSL	2888.27547	0.020407315	0.02323217	0.12050045	0.35578596	1313.88791	0.00366931	0.00351058
Ventura	2017	HHDT	2014	65	DSL	3634.82774	0.020407315	0.02323217	0.12050045	0.35742421	1313.88791	0.00366931	0.00351058
Ventura	2017	HHDT	2014	70	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
Ventura	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Los Angeles
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Los Angeles	2017	HHDT	2014	5	DSL	2834.4608	0.41542401	3.17125547	12.1403521	12.4534653	3341.34626	0.00797569	0.00763066
Los Angeles	2017	HHDT	2014	10	DSL	6317.00975	0.3337204	2.73649181	10.4309799	9.38649262	2993.98121	0.00715611	0.00684654
Los Angeles	2017	HHDT	2014	15	DSL	9055.33153	0.26545932	0.83134112	3.46714729	6.86469359	2246.95832	0.00671411	0.00642366
Los Angeles	2017	HHDT	2014	20	DSL	20397.96	0.19151377	0.37414024	1.69132392	3.93081022	1898.41361	0.0058551	0.00560181
Los Angeles	2017	HHDT	2014	25	DSL	30521.4826	0.14681986	0.27762531	1.26358324	2.36209506	1747.54984	0.00565684	0.00541213
Los Angeles	2017	HHDT	2014	30	DSL	41706.4406	0.10858207	0.19053807	0.88142431	1.52323103	1641.92316	0.00522215	0.00499624
Los Angeles	2017	HHDT	2014	35	DSL	34192.9671	0.07741307	0.23679102	0.99082397	1.0160062	1622.68429	0.004734	0.00452921
Los Angeles	2017	HHDT	2014	40	DSL	34644.7293	0.05788441	0.14372783	0.62121753	0.76225269	1531.18593	0.00446764	0.00427437
Los Angeles	2017	HHDT	2014	45	DSL	33860.8307	0.04282725	0.09662147	0.42473025	0.5880714	1466.27848	0.00419834	0.00401672
Los Angeles	2017	HHDT	2014	50	DSL	29891.47	0.03214481	0.0505024	0.23973921	0.47752128	1387.3056	0.0040066	0.00383328
Los Angeles	2017	HHDT	2014	55	DSL	37834.3353	0.02377267	0.02706337	0.14037207	0.39043238	1339.7428	0.00377356	0.00361032
Los Angeles	2017	HHDT	2014	60	DSL	71332.3988	0.0204999	0.02333758	0.12104715	0.35846862	1317.44782	0.00369173	0.00353202
Los Angeles	2017	HHDT	2014	65	DSL	41734.1266	0.02065774	0.02351726	0.12197915	0.36266035	1309.12647	0.00372994	0.00356858
Los Angeles	2017	HHDT	2014	70	DSL	481.390089	0.02127286	0.02421753	0.12561129	0.38174756	1303.74961	0.00387884	0.00371105
Los Angeles	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
Los Angeles	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
Los Angeles	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
Los Angeles	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Imperial
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Imperial	2017	HHDT	2014	5	DSL	11.3366509	0.20979442	2.26568775	8.24540447	4.38989339	5571.55931	0.0105323	0.01007668
Imperial	2017	HHDT	2014	10	DSL	23.4010518	0.12914323	2.05819133	7.36928022	1.77776556	5337.49104	0.00960169	0.00918633
Imperial	2017	HHDT	2014	15	DSL	10.6897961	0.09085839	1.45005245	5.19161152	1.18055024	4479.20648	0.00825114	0.0078942
Imperial	2017	HHDT	2014	20	DSL	132.125269	0.17254484	0.26883796	1.26914681	3.43643452	2011.21403	0.00549628	0.00525852
Imperial	2017	HHDT	2014	25	DSL	211.482204	0.14886869	0.21737899	1.04463176	2.46531285	1833.57445	0.00610864	0.00584439
Imperial	2017	HHDT	2014	30	DSL	825.753785	0.11350755	0.13937487	0.70534107	1.64474343	1642.04416	0.00559679	0.00535468
Imperial	2017	HHDT	2014	35	DSL	1216.48145	0.08288031	0.10690668	0.53278597	1.13149537	1584.31903	0.00520281	0.00497774
Imperial	2017	HHDT	2014	40	DSL	2075.68345	0.0618855	0.07435467	0.37891088	0.84459257	1485.26033	0.0048494	0.00463962
Imperial	2017	HHDT	2014	45	DSL	3018.73969	0.04579613	0.05374843	0.27599155	0.65197839	1418.74887	0.00454628	0.00434961
Imperial	2017	HHDT	2014	50	DSL	3481.11882	0.03387393	0.03892168	0.20125797	0.51930658	1361.12968	0.00427722	0.00409219
Imperial	2017	HHDT	2014	55	DSL	7976.40257	0.02500263	0.02846359	0.1476347	0.42401217	1320.98074	0.00403642	0.0038618
Imperial	2017	HHDT	2014	60	DSL	3993.84632	0.02146338	0.02443443	0.12673629	0.38558402	1304.36108	0.00392496	0.00375517
Imperial	2017	HHDT	2014	65	DSL	20982.8543	0.02146338	0.02443443	0.12673629	0.38615593	1304.36108	0.00392496	0.00375517
Imperial	2017	HHDT	2014	70	DSL	423.409188	0.02146338	0.02443443	0.12673629	0.38758797	1304.36108	0.00392496	0.00375517
Imperial	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
Imperial	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
Imperial	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
Imperial	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Inyo
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Inyo	2017	HHDT	2014	5	DSL	17.8344264	0.52053359	0.59258787	3.07362995	17.6488823	2841.70047	0.009776	0.0093531
Inyo	2017	HHDT	2014	10	DSL	68.1283336	0.42157733	0.4799337	2.48931619	13.4399815	2519.68664	0.00879393	0.00841351
Inyo	2017	HHDT	2014	15	DSL	83.3215094	0.29690718	0.33800622	1.75316792	8.17345275	2113.99719	0.00755666	0.00722976
Inyo	2017	HHDT	2014	20	DSL	191.389867	0.21260835	0.24203842	1.2554029	4.64048038	1847.52221	0.00665133	0.00636359
Inyo	2017	HHDT	2014	25	DSL	188.194699	0.1574069	0.17919578	0.9294512	2.64272763	1704.45487	0.00613299	0.00586768
Inyo	2017	HHDT	2014	30	DSL	317.725049	0.11599756	0.1320544	0.68493867	1.69334721	1605.1508	0.00564694	0.00540266
Inyo	2017	HHDT	2014	35	DSL	571.595308	0.08548186	0.09731459	0.50475053	1.17661936	1525.4812	0.00524232	0.00501554
Inyo	2017	HHDT	2014	40	DSL	539.419926	0.06299398	0.07171385	0.37196483	0.86621277	1459.20469	0.00489572	0.00468393
Inyo	2017	HHDT	2014	45	DSL	755.222854	0.04642203	0.05284795	0.27411132	0.66619879	1402.59644	0.00459256	0.00439389
Inyo	2017	HHDT	2014	50	DSL	785.413207	0.0342097	0.03894514	0.20200032	0.52862984	1353.26685	0.00432316	0.00413615
Inyo	2017	HHDT	2014	55	DSL	957.763332	0.02521009	0.02869977	0.14885971	0.43017824	1316.90244	0.00408075	0.00390422
Inyo	2017	HHDT	2014	60	DSL	291.768171	0.02164148	0.02463717	0.12778789	0.39190039	1300.33409	0.00396808	0.00379642
Inyo	2017	HHDT	2014	65	DSL	159.807286	0.02164148	0.02463717	0.12778789	0.39191107	1300.33409	0.00396808	0.00379642
Inyo	2017	HHDT	2014	70	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
Inyo	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Kern
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Kern	2017	HHDT	2014	5	DSL	855.297919	0.48997057	0.66323811	3.25219285	16.2511223	3033.14765	0.00961771	0.00920165
Kern	2017	HHDT	2014	10	DSL	3190.1055	0.40280972	0.51359345	2.56585561	12.60196	2629.54572	0.00862456	0.00825146
Kern	2017	HHDT	2014	15	DSL	4170.6145	0.28864185	0.34214385	1.75049007	7.83825919	2146.95856	0.00738331	0.00706391
Kern	2017	HHDT	2014	20	DSL	10175.5711	0.20817336	0.24067973	1.24178029	4.49512126	1858.88393	0.00650261	0.00622131
Kern	2017	HHDT	2014	25	DSL	8650.86942	0.15352615	0.17937417	0.9221865	2.54507121	1721.79496	0.00598757	0.00572855
Kern	2017	HHDT	2014	30	DSL	15596.7327	0.11340404	0.13121212	0.67680981	1.6359593	1616.28618	0.00551135	0.00527293
Kern	2017	HHDT	2014	35	DSL	28553.3099	0.08346603	0.09711892	0.49999517	1.13540239	1539.94234	0.00511808	0.00489668
Kern	2017	HHDT	2014	40	DSL	28371.8203	0.06158517	0.0712307	0.36746194	0.83731115	1470.31861	0.00477753	0.00457086
Kern	2017	HHDT	2014	45	DSL	41605.6481	0.04545452	0.05220586	0.26996245	0.64552594	1410.06257	0.00447995	0.00428615
Kern	2017	HHDT	2014	50	DSL	43960.1436	0.03353716	0.03829101	0.19840881	0.51274824	1357.90476	0.00421522	0.00403287
Kern	2017	HHDT	2014	55	DSL	51974.7706	0.02473228	0.02815582	0.14603837	0.41735786	1319.92114	0.00397864	0.00380653
Kern	2017	HHDT	2014	60	DSL	16275.6713	0.02122695	0.02416526	0.12534019	0.38025041	1303.3394	0.00386773	0.00370041
Kern	2017	HHDT	2014	65	DSL	8765.37692	0.02122787	0.02416631	0.12534562	0.38032535	1303.33422	0.00386795	0.00370063
Kern	2017	HHDT	2014	70	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
Kern	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Kings
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
Kings	2017	HHDT	2014	5	DSL	163.446615	0.49615014	0.62660247	3.13963304	16.5071209	2957.82231	0.0095329	0.00912051
Kings	2017	HHDT	2014	10	DSL	616.571969	0.40546858	0.49346798	2.50254101	12.700606	2585.8554	0.00855745	0.00818726
Kings	2017	HHDT	2014	15	DSL	743.935729	0.28835717	0.33677522	1.73158417	7.8199013	2135.84832	0.00733679	0.0070194
Kings	2017	HHDT	2014	20	DSL	1693.04227	0.20757098	0.23878678	1.23409877	4.47409187	1855.80011	0.00646686	0.00618711
Kings	2017	HHDT	2014	25	DSL	1674.66364	0.15324478	0.17711567	0.91391051	2.53751855	1715.28258	0.00595115	0.00569371
Kings	2017	HHDT	2014	30	DSL	2822.76205	0.11306136	0.13001712	0.67203832	1.62797085	1612.97877	0.00547803	0.00524105
Kings	2017	HHDT	2014	35	DSL	5084.28164	0.08324636	0.09608948	0.49603684	1.13012783	1535.79779	0.00508654	0.0048665
Kings	2017	HHDT	2014	40	DSL	4793.09547	0.06139267	0.07063354	0.36503391	0.8327176	1467.88222	0.0047494	0.00454394
Kings	2017	HHDT	2014	45	DSL	6701.26937	0.04528768	0.05187586	0.26849856	0.64176527	1409.14218	0.00445424	0.00426155
Kings	2017	HHDT	2014	50	DSL	6960.10203	0.03340512	0.03810804	0.1975175	0.50956193	1357.97465	0.00419203	0.00401068
Kings	2017	HHDT	2014	55	DSL	8481.86465	0.02462882	0.02803803	0.14542744	0.41457903	1320.40387	0.00395653	0.00378537
Kings	2017	HHDT	2014	60	DSL	2583.87229	0.02114249	0.02406911	0.12484148	0.37795503	1303.79146	0.00384728	0.00368085
Kings	2017	HHDT	2014	65	DSL	1415.23874	0.02114249	0.02406911	0.12484148	0.37801705	1303.79146	0.00384728	0.00368085
Kings	2017	HHDT	2014	70	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
Kings	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: San Bernardino
Calendar Year: 2017
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	CalYr	VehClass	MdlYr	Speed	Fuel	VMT	ROG_RUNEX	TOG_RUNEX	CO_RUNEX	NOx_RUNEX	CO2_RUNEX	PM10_RUNEX	PM2_5_RUNEX
San Bernardino	2017	HHDT	2014	5	DSL	698.557596	0.41961649	2.79459062	10.7918452	12.7358368	3309.60362	0.00807765	0.00772822
San Bernardino	2017	HHDT	2014	10	DSL	2125.05366	0.3530966	1.88437449	7.40451726	10.3029143	2846.03051	0.00747928	0.00715573
San Bernardino	2017	HHDT	2014	15	DSL	2138.60037	0.2638837	0.77452729	3.25952629	6.83288418	2245.17379	0.00666994	0.0063814
San Bernardino	2017	HHDT	2014	20	DSL	5030.0588	0.17891122	0.33764591	1.53717446	3.56332784	1900.14547	0.00533261	0.00510193
San Bernardino	2017	HHDT	2014	25	DSL	6760.92303	0.14604782	0.27180843	1.24112122	2.35438774	1749.58972	0.00562464	0.00538132
San Bernardino	2017	HHDT	2014	30	DSL	10403.7501	0.10870862	0.18053034	0.8456309	1.53334885	1639.89989	0.00522953	0.0050033
San Bernardino	2017	HHDT	2014	35	DSL	10208.1409	0.07817919	0.19437494	0.83976188	1.03325173	1602.43764	0.00477044	0.00456407
San Bernardino	2017	HHDT	2014	40	DSL	11101.5954	0.05839438	0.11787552	0.52924573	0.77420307	1513.9679	0.00449757	0.00430301
San Bernardino	2017	HHDT	2014	45	DSL	14474.5221	0.04378953	0.07354635	0.34359708	0.60933921	1440.4853	0.00429203	0.00410636
San Bernardino	2017	HHDT	2014	50	DSL	15851.1817	0.03275855	0.0428431	0.21334762	0.49313559	1372.13109	0.004094	0.0039169
San Bernardino	2017	HHDT	2014	55	DSL	16484.2082	0.0239407	0.02725467	0.1413643	0.39610369	1335.02921	0.00380947	0.00364468
San Bernardino	2017	HHDT	2014	60	DSL	32663.1228	0.02079054	0.02366845	0.12276333	0.367651	1312.63038	0.00376209	0.00359934
San Bernardino	2017	HHDT	2014	65	DSL	47073.3808	0.02122183	0.02415944	0.12530998	0.37940495	1304.09111	0.00386649	0.00369923
San Bernardino	2017	HHDT	2014	70	DSL	75797.0709	0.02155033	0.02453341	0.12724967	0.38936559	1300.94267	0.00394601	0.00377531
San Bernardino	2017	HHDT	2014	75	DSL	0	0	0	0	0	0	0	0
San Bernardino	2017	HHDT	2014	80	DSL	0	0	0	0	0	0	0	0
San Bernardino	2017	HHDT	2014	85	DSL	0	0	0	0	0	0	0	0
San Bernardino	2017	HHDT	2014	90	DSL	0	0	0	0	0	0	0	0

Santa Susana Field Laboratory
Air Quality Appendix
Section 9
Santa Susana Field Laboratory Project EIR Feasibility of Alternative-Fueled Construction Equipment and Trucks Memorandum

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memorandum

date March 24, 2016

to California Environmental Protection Agency, Department of Toxic Substance Control (DTSC)

from Heidi Rous, Environmental Science Associates (ESA)

subject Santa Susana Field Laboratories Project EIR
Feasibility of Alternative-Fueled Cleanup Equipment and Trucks

Introduction and Project Background

Environmental Science Associates (ESA) is providing this Technical Memorandum in support of the California Environmental Quality Act (CEQA) document development for consideration by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) in assessing the remedial action to be undertaken at the approximately 2,850-acre Santa Susana Field Laboratories (SSFL) site and adjacent offsite areas (the project site). Roughly 541 acres at the project site have been targeted for some level of remedial action. The project site is located in the southeastern-most part of Ventura County and adjacent to Los Angeles County, approximately 29 miles northwest of downtown Los Angeles and approximately one mile south of the City of Simi Valley.

This memorandum discusses the feasibility of alternative-fueled cleanup equipment and trucks for the removal of impacted material from the SSFL site and adjacent offsite areas. The remedial technologies considered to address the multiple affected media, the variety of contaminants present, and the unique and various conditions at the site includes: excavation and offsite disposal; soil vapor extraction; biological treatment; capping and onsite management; phytoremediation (the use of plants to remediate chemicals of concern in contaminated media); and physical remediation methods (soil washing/partitioning; soil solidification/stabilization; thermal desorption).

The DTSC's proposed remedy for the project site would generate a daily maximum number of 96 round trips (resulting in 192 total trips) for trucks visiting the site for export and import of materials for all Responsible Parties (RPs) combined. This maximum would represent all types of truck trips, including: equipment deliveries; excavation spoils; building demolition debris; and delivery of backfill soil. For planning purposes, it is assumed that the actual number of trucks would range between approximately 48 round trips and a maximum of 96 round trips. This predicted variability is based on factors such as funding, the complexity of various projects stages (i.e., building removal, excavation, backfilling, confirmation sampling, etc.), coordination between multiple RPs, determination of final soil excavation volumes, and project initiation and ability to ramp up overall production given the nature of the SSFL project as a whole. Reclamation would consist of limited backfilling, grading, and revegetation as necessary.

Equipment Exhaust

Implementation of the project Cleanup Plan has the potential to generate short-term emissions of criteria pollutants, toxic air contaminants (TAC), and greenhouse gases (GHGs) through the operation of diesel-fueled heavy-duty equipment, vehicle trips generated from workers and visitors traveling to and from the project site, haul trucks importing and exporting material, and vehicles bringing supplies and equipment. Mobile source emissions, primarily oxides of nitrogen (NO_X), particulate matter (PM), and carbon dioxide (CO_2) would result from the use of this on- and off-road equipment. The project site is located in the South Central Coast Air Basin (SCCAB) and adjacent to the South Coast Air Basin (SoCAB), which are designated as state and federal non-attainment area for ozone and a state non-attainment area for PM10. The SoCAB is also designated as a state and federal non-attainment area for PM2.5. A non-attainment designation means that the area does not meet the health-based ambient air quality standards for these pollutants. Emissions of NO_X are a precursor to the formation of ground-level ozone, which occurs due to complex photo-chemical reactions of these pollutants in the atmosphere in the presence of sunlight. Additionally, the use of diesel fuel would generate diesel particulate matter (DPM) exhaust, which is classified as a TAC, and a carcinogen by the State of California.

To estimate the emissions associated with the heavy-duty diesel-fueled equipment required for the project cleanup activities, the types and number of equipment, and hours of operation per day must be determined based on the maximum daily throughput or rate of cleanup. Emission factors are based on U.S. Environmental Protection Agency (USEPA) off-road emissions standards applicable to the equipment assumed to be used during the project cleanup activities. USEPA emissions standards are classified as Tiers 1-4, with a higher tiered engine (Tier 4) applying to newer engine model years, resulting in lower emissions (cleaner). The DTSC is committed to using the higher tiered engines (Tier 4) to reduce diesel exhaust emissions.

On-road vehicles, such as personal automobiles, delivery trucks, and haul trucks, are calculated based on vehicle miles traveled (VMT), average speed, and engine model year. Although the project is located in the Ventura County portion of the SCCAB, which is under the jurisdiction of the Ventura County Air Pollution Control District (VCAPCD) for air quality planning, and directly adjacent to the SoCAB, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD) for air quality planning, haul trucks exporting soil may travel (i.e., VMT) to a receiver landfill located outside of the SCCAB. The selection of the receiver site (landfill) would depend on the characterization of the impacted soil. Export haul truck trip lengths (i.e., VMT per one-way trip) from the project site to receiver sites would be up to approximately 18 miles in the SCCAB, approximately 12 to 125 miles within the SoCAB, up to approximately 300 miles within in the San Joaquin Valley Air Basin (SJVAB), up to approximately 140 miles within the Salton Sea Air Basin (SSAB), up to approximately 200 miles in the Mojave Desert Air Basin (MDAB), up to approximately 160 miles in the Great Basin Valleys Air Basin (GBVAB), up to approximately 230 miles in the Sacramento Valley Air Basin (SACVAB), and up to approximately 66 miles in the Northeast Plateau Air Basin (NEPAB). The VMT anticipated from implementation of the remedy at the project site is expected to result in non-negligible emissions in these air basins.

In 2008, CARB approved the Truck and Bus regulation to reduce PM and NO_X emissions from existing diesel vehicles operating in California, which was amended in December 2010 to apply to nearly all diesel fueled trucks and busses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. For the largest trucks in the fleet, i.e. a GVWR greater than 26,000 pounds, there are two options to comply with the requirements. For option one, the fleet owner retrofits or replaces engines, starting with the oldest engine model year, to meet the 2010

engine standards, or better. This option would be phased over 8 years, starting in 2015 and would be fully implemented by 2023. Therefore, all trucks operating in the State subject to this option would meet or exceed the 2010 engine emission standards for NO_X and PM by 2023. Method two required fleet owners, starting in 2012, to retrofit a portion of their fleet with DPM filters (DPFs) to achieve at least 85 percent removal efficiency, such that by January 1, 2016 their entire fleet is equipped with DPFs. However, DPFs do not lower NO_X emissions; thus, fleet owners choosing the second option must still comply with the 2010 engine emission standards for their trucks and busses by 2020.

Emission Control Strategies

The project would implement a number of mitigation measures to reduce fugitive dust, and equipment and truck exhaust emissions. To account for control measures when preparing an emissions inventory, the VCAPCD *Ventura County Air Quality Assessment Guidelines*, SCAQMD CEQA *Air Quality Handbook* and *Air Quality Analysis Handbook* and CARB regulations provide control efficiency percentages, which are supported by peer reviewed scientific studies. The control efficiency percentages apply to fugitive dust or engine exhaust emissions sources in order to reduce emissions. Based on the control measures discussed below, such control measures (and results) for equipment exhaust included in the analysis are, as follows:

- Use of USEPA Tier 4 emissions compliant equipment for cleanup activities (cleaner engines, i.e., lower DPM and NO_X emissions up to 95 and 90 percent, respectively).
- Use of newer model year trucks for export (cleaner engines, i.e., lower DPM and NO_X emissions up to 90 and 80 percent, respectively, compared to pre-2010 models).
- Limit idling of all equipment and trucks to five minutes per instance (which reduces DPM and NO_X emissions, although difficult to reliably quantify).

Although implementation of these control measures would reduce emissions, project-related air pollutant emissions are predicted to exceed applicable thresholds. Specifically, regional emissions of NO_X would likely exceed the VCAPCD and SCAQMD's daily significance thresholds. Emissions of TACs, specifically DPM, could also exceed the health risk significance threshold of 10 in one million. As is required by CEQA, DTSC must consider all feasible mitigation measures to reduce significant impacts, and has requested ESA to investigate the feasibility of additional emission reducing technologies including alternative-fueled engines.

The following discussion considers the feasibility of alternative-fueled equipment and trucks, as mitigation to further reduce project emissions of NO_X and other pollutants, including the feasibility of: :

1. Biodiesel Fuel;
2. Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG); and
3. Electric Engines (plug-in or hybrid).

1. Biodiesel Fuel

Biodiesel Basics

Biodiesel is a cleaner burning diesel replacement fuel, produced from a renewable diverse mix of resources including agricultural oils, recycled cooking oil, and animal fats. Meeting strict technical fuel quality and engine performance specifications (American Society of Testing & Materials (ASTM) D6751), biodiesel can be used in existing diesel engines without modification, and is covered by all major engine manufacturers' warranties, most

often in blends of 5 percent up to 20 percent (known as B20) biodiesel. Biodiesel is produced in nearly every state in the country. Biodiesel is the only alternative fuel to have fully completed the health effects testing requirements of the 1990 Amendments to the federal Clean Air Act. Health testing was performed based on inhalation of biodiesel exhaust at different concentrations. Results of the testing concluded that biodiesel exhaust concentrations expected to be observed on the field would not pose a threat to human health (Sharp, 1998)

Biodiesel that meets ASTM D6751 and is legally registered with the USEPA, is a legal motor fuel for sale and distribution (Biodiesel.org 2016). The use of biodiesel in a conventional diesel engine, not equipped with new diesel after treatment, results in substantial reduction of unburned hydrocarbons, carbon monoxide (CO), and PM compared to emissions from diesel fuel. In addition, the exhaust emissions of sulfur oxides and sulfates (major components of acid rain) from biodiesel are essentially eliminated compared to higher sulfur diesel (Biodiesel.org 2016).

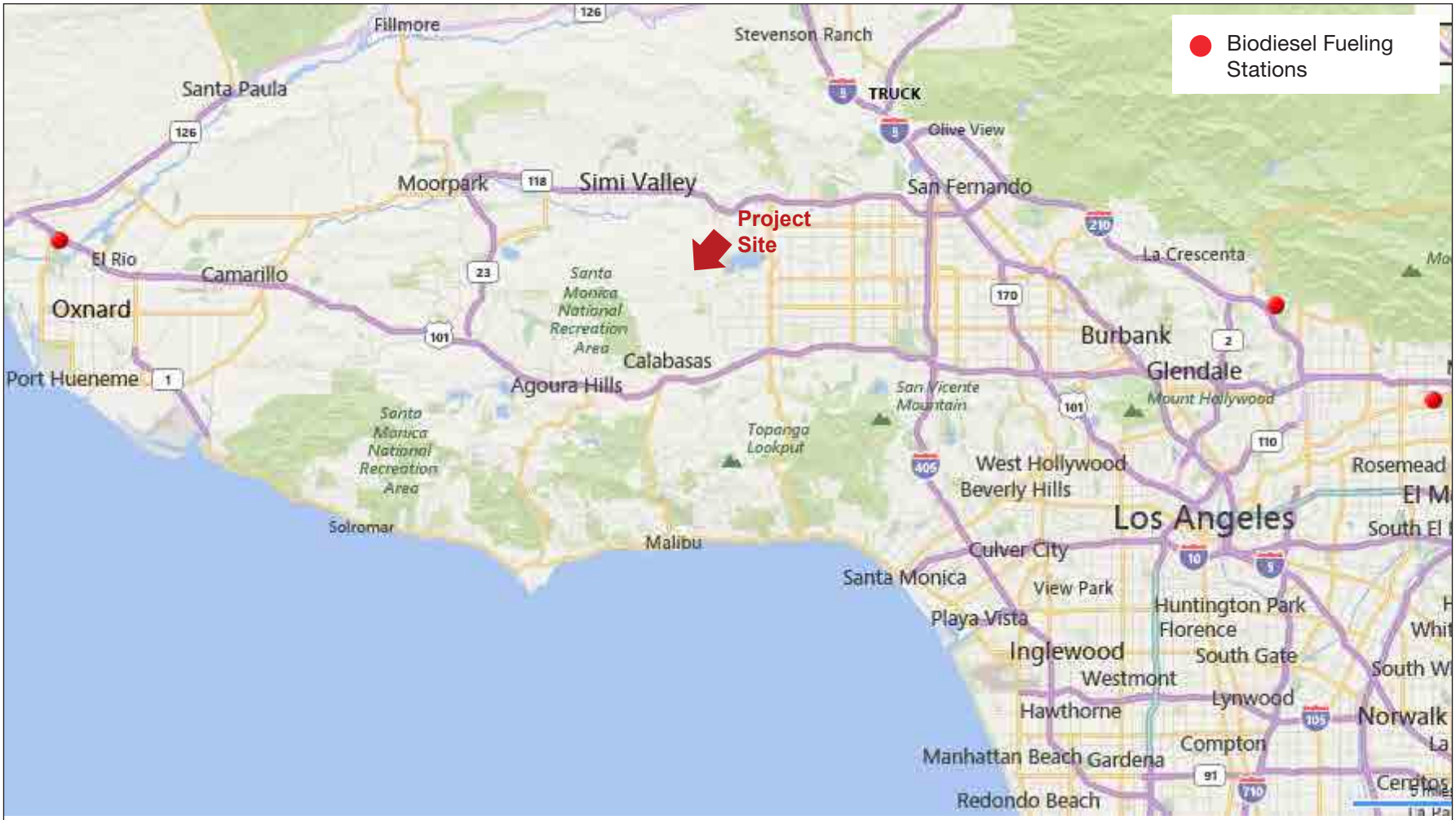
Of the major exhaust pollutants, both unburned hydrocarbons and NO_X are ozone (or smog) forming precursors. The use of biodiesel in a conventional diesel engine results in substantial reduction of unburned hydrocarbons, CO, and PM. However, emissions of NO_X are either slightly reduced or slightly increased depending on the duty cycle of the engine and testing methods used. Biodiesel further enhances the advantages of diesel by reducing vehicle emissions. B20, a 20 percent blend of biodiesel and conventional diesel, reduces emissions of hydrocarbons by 20 percent and CO and PM emissions by 12 percent. Based on engine testing, using the most stringent emissions testing protocols required by USEPA for certification of fuels or fuel additives in the U.S., the overall ozone forming potential of the hydrocarbon emissions from biodiesel was nearly 50 percent less than that measured for diesel fuel. New Technology Diesel Engines (NTDE) (i.e. those with PM traps and selective catalytic reduction, SCR, technology required for on-road applications in the US after 2010) reduce emissions of both PM and NO_X with B20 by over 90 percent compared to a conventional diesel engine based on model year 2004 emissions standards. This makes NTDEs as clean as or cleaner than either gasoline or natural gas fueled engines (Biodiesel.org 2016).

Biodiesel Availability

Biodiesel is available nationwide, and can be purchased directly from biodiesel producers and marketers, petroleum distributors, or at a few public retailers throughout the nation (Biodiesel.org 2016). Biodiesel fuel is available at fueling stations within 25 miles of the SSFL site, as shown in **Figure 1**, *Biodiesel Fueling Stations near Santa Susana Field Laboratories Site*, below.

Biodiesel Usage

Biodiesel usage is growing rapidly in every market segment where conventional diesel fuel is used. Some of the leading types of consumers of biodiesel fuels include state and municipal governments, school districts, U.S. Department of Defense, agriculture, cruise ships, mining, commercial trucking and truck stop operators. Many cities and states have started to require that their trucks and buses use biodiesel fuels. Notable examples of municipal users in California include the cities of San Francisco, San Jose, and Santa Monica. Some states such as Washington, Louisiana and Minnesota now also mandate that a certain percentage of all diesel fuel sold must be biodiesel.



SOURCE: http://biodiesel.org/using-biodiesel/finding-biodiesel/retail-locations/retail-map

Figure 1
Biodiesel Fueling Stations near Santa Susana Field Laboratories

Use of biodiesel is diverse, with a variety of users (e.g., municipalities, agencies, and utilities) and equipment and vehicle fleets, such as the following examples (Berkeleybioddiesel.org 2016):

- New common rail engines use biodiesel fuel, B5 or B20, depending on manufacturer.
- Automobile manufacturer acceptance and vehicular usage of biodiesel fuel began when Chrysler released the Jeep Liberty CRD diesels into the American market with B5, which was an indication of at least partial acceptance of biodiesel fuel usage in the automotive industry.
- The City of Halifax, Nova Scotia updated its bus system to allow the fleet of city buses to run completely on a fish-oil based biodiesel fuel.
- The McDonalds Corporation in United Kingdom produced biodiesel from the waste oil of its restaurants and use as biodiesel fuel to run its vehicle fleet. The British Train Operating Company, Virgin Trains was transformed to run on B20. The Royal Train runs onB100.
- The Disneyland Theme Park operates its park trains on B98 biodiesel blends.
- Caterpillar Corporation uses of blends up to B20 in its off-road Tier 4 938K wheel loader. Caterpillar has approved the use of B20 biodiesel across its range of compact and mid-range engines.
- Komatsu Corporation announced that an acceptable biodiesel fuel blend of up to B20 can be used for all Komatsu engines.
- The Volvo Corporation warranty statement for Volvo Trucks' D11, D13, and D16 engines that the use of biodiesel up to a maximum of B20 in and of itself, will not affect the manufacturer's mechanical warranty as to engine and emissions system related components, provided the bio fuel used in the blend conforms to ASTM standards.
- The John Deere Corporation announced that all John Deere engines can use biodiesel blends. B5 blends are preferred, but concentrations up to B20 can be used providing the biodiesel used in the fuel blend meets the ASTM standards.

Applications of biodiesel fuel can also be seen as a heating fuel in domestic and commercial boilers, using a blend of heating oil and standardized biofuel, known as "bio heat" (Berkeleybioddiesel.org 2016).

As of 2015, the annual U.S. production of biodiesel was 1,263 million gallons (U.S. Energy Information Administration (EIA 2016), and 32 million gallons in California (California Biodiesel Alliance 2016).

U.S. Environmental Protection Agency Policy on Biofuels:

The USEPA has set a target of 18.8 billion (bn) gallons blended into the U.S.' fuel supply in 2017, up 4 percent from the 18.1 bn gallons set for this year, which includes 14.8 bn for conventional biofuels, mainly ethanol, up from 14.5 bn for this year. This figure is still far below the 24 bn gallon target in the Renewable Fuel Standard set in 2007 by Congress, which was aimed at cutting US oil imports and increasing renewable fuel use. In addition:

- Total renewable fuel volumes would grow by nearly 700 million gallons between 2016 and 2017.
- Biomass-based biodiesel, which must achieve at least 50 percent lifecycle emissions reductions, would grow by 100 million gallons between 2017 and 2018.
- Cellulosic biofuel, which requires 60 percent lifecycle carbon emissions reductions, would grow by 82 million gallons, or 35 percent, between 2016 and 2017.

Biodiesel Benefits and Drawbacks

The use of biodiesel has benefits and drawbacks. According to a USEPA study, the use of B20 can reduce emissions of hydrocarbons by 20 percent, CO by 11 percent, and PM by 10 percent; however it can increase NO_X emissions by 2 percent. The use of biodiesel does not contribute substantial amounts of GHGs to the global climate change problem since they only emit back to the environment the CO_2 that their source plants absorbed from the atmosphere as part of the natural carbon cycle. A benefit of biodiesel is that it can be used in existing diesel engines with no physical changes needed.

Many producers have been unable to produce biodiesel that meets ASTM 6751 quality due primarily to their inability to remove all impurities and water during the washing and refining processes. The USEPA found that the use of B20 can reduce fuel efficiency by 1 to 2 percent. B100, and other diesel/biodiesel blends, are more expensive to consumers than standard diesel fuel, as a result of the rapidly rising feedstock prices and production problems of producers.

2. Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG)

CNG/LNG Basics

CNG and LNG are two forms of natural gas currently used in vehicles. CNG is produced by compressing natural gas to less than 1 percent of its volume at standard atmospheric pressure. To provide adequate driving range, CNG is stored onboard a vehicle in a compressed gaseous state within cylinders at a pressure of 3,000 to 3,600 pounds per square inch. CNG is used in light-, medium-, and heavy-duty applications. A CNG-powered vehicle gets about the same fuel economy as a conventional gasoline vehicle on a gallon of gasoline equivalent (GGE) basis. GGE is the typical way CNG is sold at public fueling stations. One GGE equals about 5.66 pounds of CNG.

LNG is natural gas that has been converted to liquid form for easier storage and transport. LNG is produced by purifying natural gas and super-cooling it to approximately -260 °F to turn it into a liquid. During the process known as liquefaction, natural gas is cooled below its boiling point, removing most of the compounds found in the fuel. The remaining natural gas is primarily methane with small amounts of other hydrocarbons. LNG must be kept at cold temperatures and stored in double-walled, vacuum-insulated pressure vessels. Because of LNG's relatively high production cost as well as the need to store it in expensive cryogenic tanks, the fuel's widespread use in commercial applications has been limited. One GGE equals about 1.5 gallons of LNG (U.S. Department of Energy, 2016).

There are three types of natural gas vehicles (NGVs):

- **Dedicated:** designed to run only on natural gas.
- **Bi-fuel**: have two separate fueling systems that enable them to run on either natural gas or gasoline.
- **Dual-fuel**: traditionally limited to heavy-duty applications have fuel systems that run on natural gas, and use diesel fuel for ignition assistance.

Light-duty vehicles are typically equipped with dedicated or bi-fuel systems, while heavy-duty vehicles use dedicated or dual-fuel systems. On the vehicle, natural gas is stored in tanks as CNG. Dedicated NGVs only have

one fuel tank, and are not as heavy as bi-fuel NGVs and can offer more cargo capacity. The driving range of NGVs is generally less than that of comparable conventional vehicles because of the lower energy density of natural gas. Extra storage tanks can increase range, but the additional weight may displace cargo capacity.

LNG, a more expensive option, is used in some heavy-duty vehicles. The form of natural gas used is typically chosen based on the range an application needs. Because it is a liquid, the energy density of LNG is greater than CNG, so more fuel can be stored onboard the vehicle. As a result, LNG is more suitable than CNG for trucks that require longer ranges because liquid is more dense than gas, and, therefore, more energy can be stored by volume in a given tank. LNG is typically used in medium- and heavy-duty vehicles, such as Class 7 and 8 trucks requiring a greater range.

CNG/LNG Availability

Natural gas powers approximately 150,000 vehicles in the United States and approximately 15.2 million vehicles worldwide. Both CNG and LNG are domestically produced, relatively low priced, and commercially available. Considered alternative fuels under the Energy Policy Act of 1992, CNG and LNG are sold in units of GGEs or diesel gallon equivalents (DGEs) based on the energy content of a gallon of gasoline or diesel fuel. CNG/LNG fueling stations are available within 2 miles of the SSFL site, as shown in **Figure 2**, *CNG/LNG Fueling Stations near Santa Susana Field Laboratories Site,* below.

CNG/LNG Usage

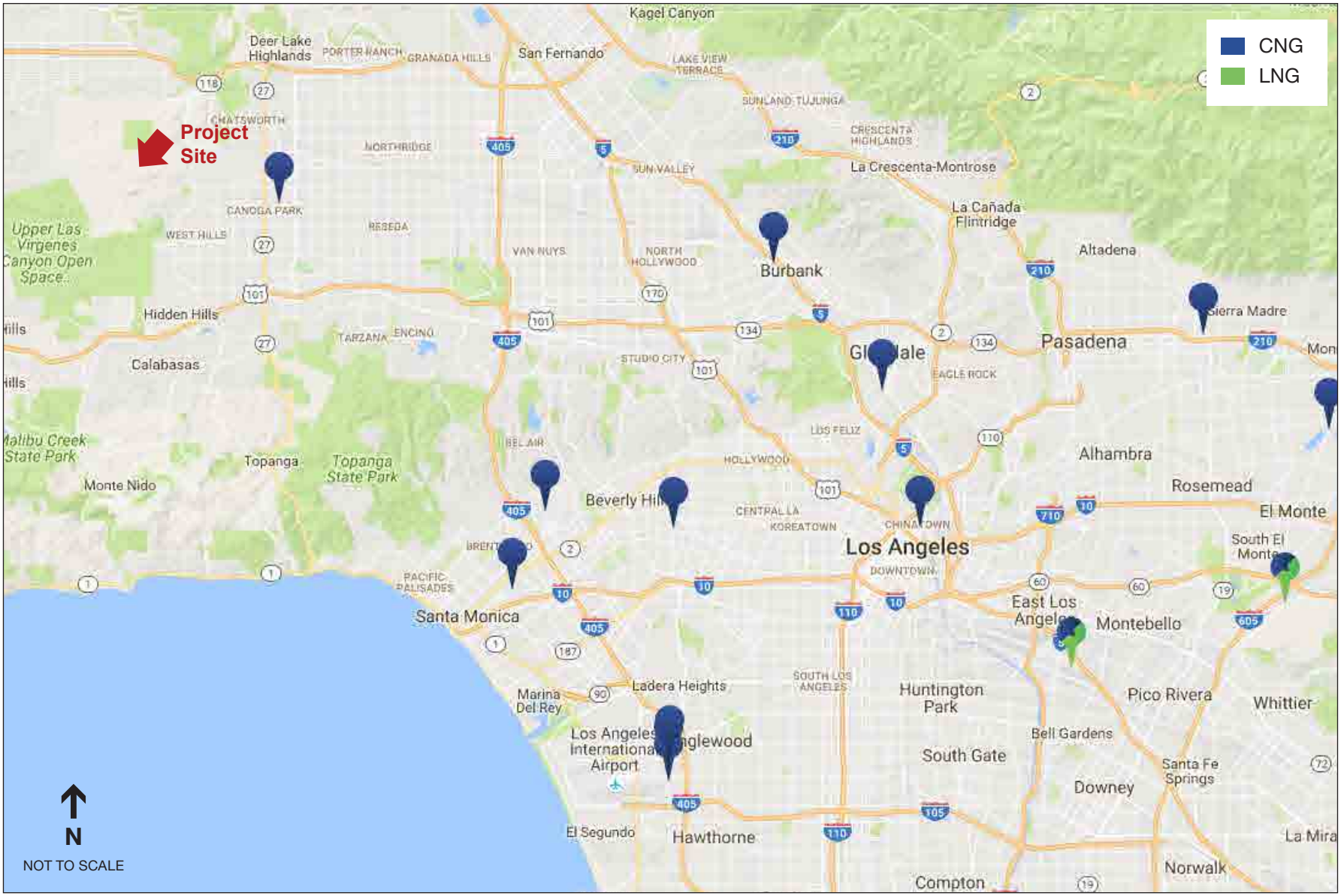
CNG and LNG usage has been supported by various companies in the past for off-road construction trucks and on-road heavy duty trucks, such as the following:

- With regard to off-road construction trucks, Caterpillar is expected to produce three large CNG powered mining trucks: the Cat 793, 795 and 797, which will be available by 2017. These trucks would be used mainly for hauling mining ore, debris, and soil.
- For on-road trucks, Volvo offers two CNG-powered on-road heavy duty day cabs (Model VNL and VNM) equipped with a factory-installed Cummins ISL G engine (available 2013). The larger, more robust VNL model features a 12-liter Cummins- Westport ISX12 G gas engine. As of November 2016, Volvo VNL models are commercially available with the ISX12 natural gas engine.
- Terex introduced its first natural-gas-fueled mixer truck -- the front-discharge FD5000 “Great Lakes” --with a new 12-liter Cummins ISX12G engine available in ratings up to 400 hp and 1450 ft. lb. of torque, in 2014.
- Freightliner Trucks showcased its first 114SD concrete mixer with CNG technology at the 2013 World of Concrete in Las Vegas. In addition, there are other Freightliner trucks that run off of natural gas.

These engines discussed above are also incorporated into a number of mass transit uses. CNG/LNG is used in a variety of heavy-duty sources, such as school buses, transit buses, capacity trucks, tractors, and freightliners.

CNG/LNG Benefits and Drawbacks

Natural gas vehicles are good choices for centrally fueled fleets. CNG tank technology and safety are improving, and in many cases CNG can provide operators with adequate range (less than 250 miles/day) for their operations. For vehicles needing to travel long distances (greater than 250 miles/day), LNG is a better choice. The advantages of natural gas as a transportation fuel include its domestic availability, widespread distribution infrastructure, low cost, and inherently clean-burning qualities.



SOURCE: http://www.cnglngstations.com/

Figure 2

CNG/LNG Fueling Stations near Santa Susana Field Laboratories

The horsepower, acceleration, and cruise speed of NGVs are comparable to those of equivalent conventional vehicles. However, torque levels are slightly lower compared to diesel fueled engines. The Cummins ISL G natural gas engine has a diesel counterpart, the ISL 9 engine. The ISL G (natural gas) provides torque levels of up to 1,000 lb-ft, while the ISL 9 (diesel) provides torque levels of up to 1,300 lb-ft. Although the ISL G and ISL 9 engines are rated for 80,000 lb line haul applications, the deficiency in torque result in trucks travelling slower to the receiver destination. As torque is required for hauling heavy loads upgrade, use of natural gas engines may not be feasible for hauling heavy loads.

Compared with conventional diesel and gasoline vehicles, NGVs can produce some emissions benefits. When used as a vehicle fuel, natural gas can offer life cycle GHG emissions benefits over conventional fuels, depending on vehicle type, drive cycle, and engine calibration. In addition, using natural gas may reduce some types of tailpipe emissions from fuel combustion in a vehicle's engine. The emissions of primary concern include the regulated emissions of hydrocarbons, NO_X, CO, as well as CO_2. Due to increasingly stringent emissions regulations, the gap has narrowed between tailpipe emissions benefits from NGVs and conventional vehicles with modern emissions controls. USEPA is requiring all fuels and vehicle types to meet increasingly lower, near zero, thresholds for tailpipe emissions of air pollutants. Still, NGVs continue to provide emissions benefits, especially when replacing older conventional vehicles or when considering life cycle emissions (ADFC 2016).

There are many heavy-duty NVGs —as well as a number of light-duty NGVs—available from original equipment manufacturers. Qualified system retrofitters can also economically, safely, and reliably convert many vehicles for natural gas operation.

However, unlike biodiesel, which is a fuel which can be used interchangeably with conventional diesel with no physical alteration of the engine needed, powering heavy duty equipment with CNG or LNG requires a major engine retrofit or for new equipment to be purchased with a CNG/LNG compatible engine to be installed by the original engine manufacturer (OEM). Thus, the use of CNG or LNG can prove to be costly.

3. Electric Engines (EVs, Plug-In, or Hybrid)

Electric Engine Basics

Electricity can be produced from a variety of energy sources, including oil, coal, nuclear energy, hydropower, natural gas, wind energy, solar energy, and stored hydrogen. Plug-in electric vehicles are capable of drawing electricity from electrical power sources (generally the electricity grid) and storing electricity in batteries. Though not yet widely available, fuel cell vehicles use hydrogen to generate electricity onboard the vehicle. Electric vehicles discussed here include all-electric vehicles (EV), plug-in hybrid electric vehicles (PHEV), and hybrid electric vehicles (HEV).

Plug-in All-Electric Vehicles (EV)

All-electric vehicles (EVs) use a battery to store the electrical energy from a plug-in source that powers the electric motor (there is no internal combustion motor). EVs are sometimes referred to as battery electric vehicles (BEVs). EV batteries are charged by plugging the vehicle into an electric power source. Although most U.S. electricity production contributes to air pollution, the USEPA categorizes all-electric vehicles as zero-emission vehicles because they produce no direct exhaust or emissions. Because EVs use no fuel, widespread use of these vehicles could dramatically reduce petroleum consumption.

Currently available EVs have a shorter driving range per charge than most conventional vehicles have per tank of gas. EV manufacturers typically target a range of 100 miles on a fully charged EV. According to the U.S. Department of Transportation, Federal Highway Administration, 100 miles is sufficient for more than 90 percent of all household vehicle trips in the United States. For longer trips, it is necessary to recharge the vehicle or swap the battery.

The efficiency and driving range of EVs varies substantially based on driving conditions and driving habits. Extreme outside temperatures tend to reduce range, because more energy must be used to heat or cool the cabin. High driving speeds reduce range because of the energy required to overcome increased drag. Compared with gradual acceleration, rapid acceleration reduces range. Hauling heavy loads or driving up significant inclines also reduces range.

Plug-in Hybrid Electric Vehicles (PHEV)

Plug-in hybrid electric vehicles (PHEVs) are powered by both an electric motor using electricity stored in batteries, or an internal combustion engine or other propulsion source, using a fuel such as gasoline or diesel. Using electricity from the grid to run the vehicle some or all of the time reduces operating costs and petroleum consumption, relative to conventional vehicles. PHEVs might also produce lower levels of emissions, depending on the electricity source.

PHEVs generally have larger battery packs than non-plug-in hybrid electric vehicles (discussed below). This makes it possible to drive moderate distances using just electricity (about 10 to 40-plus miles in current models), commonly referred to as the "all-electric range" of the vehicle.

During urban driving, most of a PHEV's power comes from stored electricity, if the battery is charged. For example, a light-duty PHEV driver might drive to and from work on all-electric power, plug in the vehicle to charge it at night, and be ready for another all-electric commute the next day. The internal combustion engine powers the vehicle when the battery is mostly depleted, during rapid acceleration, or when intensive heating or air conditioning is required. Some heavy-duty PHEVs work the opposite way, with the internal combustion engine used for driving to and from a job site and electricity used to power the vehicle's equipment or control the cab's climate while at the job site. The PHEV fuel consumption depends on the distance driven between battery charges. For example, if the PHEV is never plugged in to charge, the fuel economy will be about the same as a similarly sized non-plug-in hybrid electric vehicle. If the PHEV is driven a shorter distance than its all-electric range, and plugged in to charge between trips, it may be possible to use only electric power.

PHEV batteries can be charged by an outside electric power source, by the internal combustion engine, or through regenerative braking. During braking, the electric motor acts as a generator, using the energy to charge the battery (U.S. Department of Energy, 2016)

Hybrid Electric Vehicles (HEVs)

Like PHEVs, hybrid electric vehicles (HEVs) are powered by an internal combustion engine or other propulsion source that can be run on conventional or alternative fuel, and an electric motor that uses energy stored in a battery (however, not recharged from a plug-in source). The extra power provided by the electric motor allows for a smaller combustion engine. Additionally, the battery can power auxiliary loads like sound systems and headlights, and reduce engine idling when stopped. Together, HEVs combine the benefits of high fuel economy and low emissions with the power and range of conventional vehicles.

A HEV cannot plug into off-board sources of electricity to charge the battery. Instead, the HEV uses regenerative braking and the internal combustion engine to charge the battery. The HEV captures energy normally lost during braking by using the electric motor as a generator, and storing the captured energy in the battery. The energy from the battery provides extra power during acceleration.

Charging Stations

Charging equipment for plug-in electric vehicles (PHEVs or EVs) is classified by the rate at which the batteries are charged. Charging times vary based on how depleted the battery is, how much energy it holds, the type of battery, and the type of EV. The charging time can range from 15 minutes to 20 hours or more, depending on these factors.

Many plug-in electric vehicle owners may do the majority of their charging at home (or at fleet facilities, in the case of fleets). Some employers offer access to charging at the workplace. In many states, plug-in electric vehicle drivers also have access to public charging stations at libraries, shopping centers, hospitals, and businesses. The charging infrastructure is rapidly expanding, providing drivers with the convenience, range, and confidence to meet more of their transportation needs with plug-in vehicles. PHEVs have added flexibility, because they can also refuel with gasoline or diesel (or possibly other fuels in the future) when necessary (U.S. Department of Energy, 2016).

Electric Engines and Charging Station Availability

A number of light-, medium-, and heavy-duty HEVs, PHEVs, and EVs are available from a variety of automakers. Heavy-duty vehicles can also be converted to PHEVs. Nevertheless, as shown in **Table 1**, various types of heavy-duty HEVs have limited commercial availability.

TABLE 1
SUMMARY OF HEAVY-DUTY EV TECHNOLOGY READINESS

Vehicle	Technology Readiness	Number in Service	Notes
Transit Bus	Commercially Available	Approximately 40 in California, and > 2,500 worldwide	3 models commercially available in U.S.
School Bus	Limited Commercial Availability	4 in California	3 new buses ordered in SCAQMD 6 repowers underway with V2G
Medium-Duty (8,501 to 14,000 lbs.)	Limited Commercial Availability	300+	Focused on delivery service
Heavy-Duty (> 14,000 lbs.)	Demonstration Phase	2 Drayage 1 Refuse	13 Class-8 Trucks under construction

Source: CARB, 2015

Public charging stations are not as ubiquitous as gas stations, but charging equipment manufacturers, automakers, utilities, Clean Cities coalitions, municipalities, and government agencies are establishing a rapidly expanding network of charging infrastructure. Plug-in electric vehicles can be recharged at stations available within close distance of the SSFL site, as shown in **Figure 3**, *Electric Vehicle Charging Stations near Santa Susana Field Laboratories Site*, below. The cost of charging stations is variable depending upon the type of charging station (DC fast charging) and location (curbside or garage). Component cost of charging stations vary based on

hardware, electrical materials and labor, other materials and labor, transformer, mobilization, and permitting. Depending on these factors, a charging station for the project is estimated at approximately $5,300 to $13,150 for a curbside station, and $29,650 to $91,200 for a DC fast charging station (Greenbiz.com 2016).

Electric Engines Usage

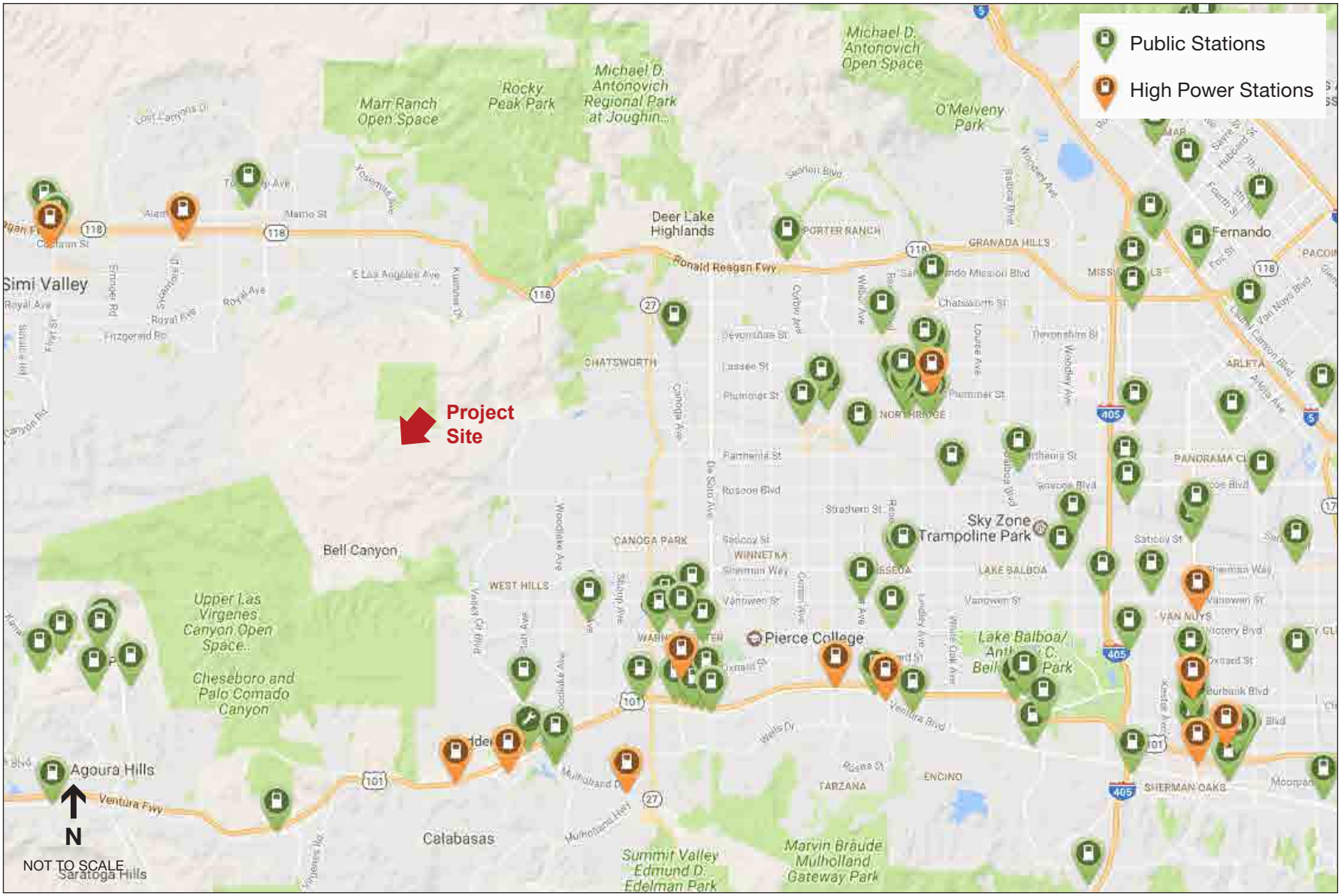
The need to reduce diesel exhaust emissions has led to the development of electric engines in construction equipment and vehicles. The new technology trend for heavy equipment is the merger of diesel engines with electric drive trains. Diesel-electric and hybrid drive systems provide slightly smaller engines operating at a lower rpm, which results in fuel savings. **Table 2** summarizes examples of heavy duty EV/Hybrid vehicles.

TABLE 2
EXAMPLES OF HEAVY-DUTY HYBRID ELECTRIC VEHICLES

Vehicle	Type	Purpose
Autocar E3 Hybrid	Hybrid Electric	Refuse
Peterbilt Motors 320 HLA	Hybrid - Hydraulic	Refuse
Collins Bus Corp. NexBus Gasoline Hybrid	Hybrid Electric	School Bus
Daimler Buses North America Orion VII Hybrid Low-Floor	Hybrid Electric	Transit Bus

Source: U.S. Department of Energy, Alternative Fuel Data Center, 2016

At the request of partner agencies, the Los Angeles County Metropolitan Transportation Authority (Metro) has taken the lead in forming a Countywide Zero-Emission Trucks Collaborative to promote development and deployment of zero-emission trucks in Los Angeles County. The Collaborative will include ports of Long Beach and Los Angeles, Caltrans, Southern California Association of Governments (SCAG), and SCAQMD. The Collaborative is currently developing pilot projects as well as demonstration projects for zero-emission trucks. Advancing zero-emission truck technology and implementation will help achieve the air quality objectives of Metro's Long Range Transportation Plan, goods movement program, and the agency's over-arching goal of creating a more sustainable transportation system. The collective efforts will be critical to meeting the stringent, federal health-based air standards proposed by the USEPA. The SDAQMD believes that should the new standards be adopted by USEPA, then a significant percentage of vehicles will need to achieve zero or near-zero-emissions by 2023. However, to date, the focus has been on dedicated zero-emission electric truck technology along the I-710. As part of the I-710 Corridor Project EIR/EIS, Metro has explored the feasibility of zero-emission trucks, including an Alternative with a 17-mile zero-emission, dedicated freight corridor in response to community air quality concerns. Metro has been investigating vehicle technologies that could meet the zero-emission requirement of the corridor. However, there are a series of challenges to overcome and critical stages in the development process to be completed before commercialization of zero-emission trucks will be realized. Establishing a coalition focused on technology advancement and implementation will help align Metro's policies and leverage its investments with those of partner agencies to realize our common vision for zero-emission trucks, clean air, and sustainable communities (Metro 2016).


Public Stations
High Power Stations
Project Site
Simi Valley
Deer Lake Highlands
PORTER RANCH
GRANADA HILLS
Fernando
CHATSWORTH
NORTHRIDGE
ARLETA
PANORAMA CITY
Sky Zone Trampoline Park
CANOGA PARK
WINNETKA
WEST HILLS
LAKE BALBOA
VAN NUYS
Pierce College
Lake Balboa/Anthony C. Bell Park
Bell Canyon
Upper Las Virgenes Canyon Open Space
Cheseboro and Palo Comado Canyon
Agoura Hills
Calabasas
Saratoga Hills
TARZANA
ENCINO
SHERMAN OAKS
Summit Valley Edmund D. Edelman Park
Marvin Braude Mulholland Gateway Park
Rocky Peak Park
Michael D. Antonovich Regional Park at Joughin...
Michael D. Antonovich Open Space
O'Melveny Park
Marr Ranch Open Space
Ronald Reagan Fwy
Ventura Fwy
Ventura Blvd
Burbank Blvd
Roscoe Blvd
Devonshire St
Plummer St
Lassen St
Strathern St
Saticoy St
Vanowen St
Victory Blvd
Oxnard St
Rinaldi St
Parthenia St
Mulholland Hwy
Mulholland Dr
Wells Dr
Rosita St
Simi Valley Fwy
Alamo St
Royal Ave
Frizgerald Rd
E Las Angeles Ave
Yosemite Ave
Sequoia Ave
Cochran St
Tapo Canyon Rd
Los Angeles Mission Blvd
Chatsworth St
Lindley Ave
Reseda Blvd
Balboa Blvd
Sepulveda Blvd
Van Nuys Blvd
Laurel Canyon Blvd
Foothill Blvd
Fox St
Hubbard St
Satire St
Fourth St
Fifth St
Sixth St
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Electric Engines Benefits and Drawbacks

Overall, electric equipment results in lower PM and NO_X emissions when compared to conventional diesel engines. However, electric equipment can cost 20 to 40 percent more than its internal combustion counterpart. Electric equipment has a downtime for recharging. The batteries typically provide enough power for one standard eight-hour shift or approximately 6 hours of constant use. After that, 8 to 16 hours are required to recharge batteries, followed by 8 hours for batteries to cool before using. Faster charging batteries can restore batteries from 20 to 100 percent in 60 to 90 minutes, though more expensive than a standard battery. In addition, battery charging stations and battery transporters are required. Although PHEVs are generally more expensive than similar conventional and hybrid vehicles, some cost can be recovered through fuel savings, a federal tax credit, or state incentives. Plug-in EVs and PHEVs use electricity from the grid to run some or all of the time reducing operating costs and petroleum consumption, relative to conventional vehicles and PHEVs. PHEVs may produce lower levels of emissions, depending on the electricity source. PHEVs generally have larger battery packs than HEVs, which makes it possible to drive moderate distances using just electricity (approximately 10 to 40-plus miles in current models). The PHEV fuel consumption depends on the distance driven between battery charges. PHEV batteries can be charged by an outside electric power source, by the internal combustion engine, or through regenerative braking. HEVs combine the benefits of high fuel economy and low emissions with the power and range of conventional vehicles, without requiring a plug-in to charge the batteries.

Conclusion

The three alternative strategies for reducing air pollutant emissions, above and beyond those reductions to be achieved with implementation of the mitigation measures listed above, were analyzed for availability, feasibility (i.e. ability to meet the project needs), and efficiency. As shown in this memorandum, while alternative fuels and associated alternative-fueled equipment are available, such fuels and equipment are not feasible for implementation in this project. The use of biodiesel would not decrease, and may in fact slightly increase NOx, the pollutant for which project emissions exceed the regional threshold for the SCCAB and SoCAB. Emissions of NO_X contribute to the formation of ground-level ozone and the SCCAB and SoCAB are designated as non-attainment for the federal and state ozone standards. Therefore, biodiesel would not be feasible for this project. Natural gas (CNG/LNG) is available in sufficient quantities, but the equipment available is currently limited to a few manufacturers or still in the prototype stage. Therefore, there is insufficient availability of natural gas (CNG/LNG)-fueled trucks available for the hauling of materials from the SSFL site to appropriate receiver facilities and would not be feasible for this project. In addition, electric engines were considered; however, due to the daily relocation of equipment throughout the SSFL site and the need for trucks to travel long distances away from the SSFL site, lack of charging stations in proximity to daily cleanup locations, and downtime for recharging, electric equipment was determined to be not feasible for this project.

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Santa Susana Field Laboratory
Air Quality Appendix
Section 10
SCAQMD's Fact Sheet for Applying CalEEMod to LSTs

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Fact Sheet for Applying CalEEMod to Localized Significance Thresholds

This fact sheet describes how construction mitigation measures from the new CalEEMod Land Use Model may be applied to the SCAQMD Localized Significance Threshold (LST) Methodology. The LST Methodology uses lookup tables based on site acreage to determine the significance of emissions for CEQA purposes. However, CalEEMod does not allow the user to mitigate construction emissions by directly modifying acreage disturbed.

CalEEMod calculates construction emissions (off-road exhaust and fugitive dust) based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the LST lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions
2) The maximum number of acres disturbed on the peak day using the equipment list from above and the following table from the CalEEMod appendix

Equipment Type	Acres/8hr-day
Crawler Tractors	0.5
Graders	0.5
Rubber Tired Dozers	0.5
Scrapers	1

3) Any emission control devices added onto off-road equipment
4) Specific dust suppression techniques used on the day of construction activity with maximum emissions

Example 1

A 15-acre development proposes to use one grader, one scraper, and one tractor for eight hours each during Site Preparation activities (the peak day in this case). As the maximum daily disturbed acreage for this equipment is 2 acres (0.5+1+0.5=2), the project proponent should compare CalEEMod reported emissions against the 2-acre LST lookup tables.

Example 2

A 1-acre development proposes to use 2 dozers and 2 tractors for eight hours per day each during Grading activities. The total acreage disturbed is 2 acres per day occurring on a 1-acre site (meaning the site is graded twice in one day). In this case, the CalEEMod reported emissions should be compared against the 1-acre LST lookup tables.

Appendix E
Greenhouse Gas Worksheets

ESA

Santa Susana Field Laboratory

Greenhouse Gas Appendix Sections & List of Tables

Greenhouse Gas Appendix Sections

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Santa Susana Field Laboratory
Acronyms

Acronym	Definition
CH_4	Methane
CO	Carbon monoxide
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalents
EKCAPCD	Eastern Kern County Air Pollution Control District
EMFAC	EMission FACtors model developed by the California Air Resources Board.
GBVAB	Great Basin Valleys Air Basin
gr	grams
Haz	Hazardous Waste Disposal Location
HP	Horse Power
kWh	kilowatt hour
lbs	pounds
LF	Load Factor
M&M	Monitoring and Maintenance
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MT	Metric Tons
MWh	megowatt hour
N_2O	Nitrogen dioxide
NEPAB	Northeast Plateau Air Basin
Non-Haz	Non-Hazardous Waste Disposal Location
NOP	Notice of Preparation
NOx	Nitrogen oxides
PM_{10}	Particulate matter with a diameter of 10 microns or smaller
$PM_{2.5}$	Particulate matter with a diameter of 2.5 microns or smaller
Rad	Radiological Waste Disposal Location
ROC	Reactive Organic Compounds
RP	Responsible Party
SACVAB	Sacramento Valley Air Basin
SCAB	South Coast Air Basin
SCAQMD	South Coast Air Quality Management District
SCCAB	South Central Coast Air Basin
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Controld District
SOx	Sulfur oxides
SSAB	Salton Sea Air Basin
Tier 3	EPA Standard for emissions from offroad vehicle engines.
VCAPCD	Ventura County Air Pollution Control District
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 1
Factors Consistent with All sections

Santa Susana Field Laboratory
Existing Conditions

Offsite Exhaust Emission Factors

Table 1-1: Emission Factors for Commuter Trips

Emission Factors (gr/mile)

	Exhaust								Fugitive	
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**	**PM10**	**PM2.5**
Commuter Trips (offsite)	0.022	0.084	0.892	0.003	0.002	0.002	301.999	0.012	N/A	N/A
Commuter Trips (onsite)	0.056	0.111	1.356	0.003	0.005	0.004	556.107	0.022		
Emission Factors (lbs/mile)										
Commuter Trips (offsite)	4.80E-05	1.85E-04	0.002	6.68E-06	3.97E-06	3.66E-06	0.666	2.64E-05	7.948E-04	1.951E-04
Commuter Trips (onsite)	1.23E-04	2.46E-04	0.003	6.68E-06	1.08E-05	9.90E-06	1.226	4.86E-05	7.948E-04	1.951E-04

Assumptions
- 453.6 grams per pound

Sources
- Emission facotrs for vehicle exhaust were taken from EMFAC2014 model (v1.07). Aggregated speeds for offsite and 15 mph for onsite. (See "EMFAC2014 Emission Rates for Commuter Vehicles", Section 8 of Appendix D or Appendix E of this DEIR, for full EMFAC modeling details)

- Emission factors for offsite vehicle fugitive dust derived from AP42 - 13.2.1 - Paved Roads

Reintrained Road Dust Emission Factors (Paved Roads):

$$E = k(sL)^{0.91} \times W^{1.02}$$

$$E_{PM10} = k*(0.1)^{0.91}*497^{1.02}$$
$$= 0.0022 * 0.123 * 2.936$$
$$= 7.95E\text{-}04 \text{ PM10}$$

$$E_{PM2.5} = 0.00054 * 0.123 * 2.936$$
$$= 1.95E\text{-}04 \text{ PM2.5}$$

k	0.0022	PM10 - particle size multiplier (lbs/VMT)
k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
sL	0.1	road surace silt loading grams per square meter (g/m^2)
w	2.88	average

- Emission factors for onsite vehicle fugitive dust taken from Table 1-8

Note: For the purposes of this appendix, if a Table is listd as "*Table #-#* " (Table 1-1 for example) it assumes it is from this appendix. If the Table is from another source, the source is listed with the table. For example, " *Table 3.4 of Appendix D of the CalEEMod User Guide*"

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Exhaust Emission Factors

Table 1-2: Emission Factors for Offroad Equipment (Unadjusted Fleet)

	Emission Factors (g/bhp-hr)							
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
Rubber Tired Dozers	0.736	7.995	2.729	0.005	0.395	0.364	509.462	0.154
Concrete/Industrial Saws	0.620	4.432	3.620	0.006	0.333	0.333	568.300	0.055
Tractors/Loaders/Backhoes	0.538	5.142	3.811	0.005	0.396	0.364	511.346	0.154
Graders	0.398	5.663	1.459	0.005	0.184	0.169	511.696	0.154
Excavators	0.358	4.081	3.158	0.005	0.201	0.185	506.495	0.153
Scrapers	0.684	8.109	2.840	0.005	0.367	0.338	502.255	0.151
street sweepers	0.783	6.454	4.059	0.005	0.571	0.525	508.357	0.153
cranes	0.623	7.381	2.582	0.005	0.335	0.308	507.155	0.153
impact chisels	Electric/battery powered N/A for emissions							
Forklifts	0.723	6.222	4.023	0.005	0.520	0.479	505.583	0.153

Table 1-3: Emission Factors for Offroad Equipment (Adjusted to Tier 3 Compliance)

	Adjusted Emission Factors (g/bhp-hr)								HP	LF
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4		
Rubber Tired Dozers	0.120	2.320	2.600	0.005	0.088	0.088	509.462	0.154	247	0.40
Concrete/Industrial Saws	0.120	2.740	3.700	0.006	0.192	0.192	568.300	0.055	81	0.73
Tractors/Loaders/Backhoes	0.120	2.740	3.700	0.005	0.192	0.192	511.346	0.154	97	0.37
Graders	0.120	2.320	2.600	0.005	0.088	0.088	511.696	0.154	187	0.41
Excavators	0.120	2.320	3.700	0.005	0.192	0.192	506.495	0.153	158	0.38
Scrapers	0.120	2.320	2.600	0.005	0.088	0.088	502.255	0.151	367	0.48
street sweepers	0.120	2.740	3.700	0.005	0.192	0.192	508.357	0.153	64	0.46
cranes	0.120	2.320	2.600	0.005	0.088	0.088	507.155	0.153	236	0.29
impact chisels	Electric/battery powered N/A for emissions									
Forklifts	0.120	2.740	3.700	0.005	0.192	0.192	505.583	0.153	89	0.20

Table 1-4: Emission Factors for Onroad Vehicles (Onsite)

	Emission Factors (g/mile)							
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4/N_2O
Water Truck	0.751	19.116	4.646	0.016	0.082	0.078	3125.871	156.294
Haul Truck	0.751	19.116	4.646	0.016	0.082	0.078	3125.871	156.294
Onsite Worker Transport	0.056	0.111	1.356	0.003	0.005	0.004	556.107	27.805
	Emission Factors (g/min)							
Haul Truck	0.027	0.707	0.097	0.001	0.002	0.002	112.84	5.642

Onsite Exhaust Emission Factors

Sources:

- Equipment type taken from Table 3-16 in the PD.
- Quantity of each equipment type was provided by DTSC based on current onsite operations.
- Emission factors for unmitigated onsite construction equipment taken from Table 3.4 of Appendix D of the CalEEMod user guide (BREEZE software, a Division of Trinity Consultants, 2016). 2016 emission factors were used as a conservative estimate for all years as equipment is not anticipated to be changed out unless it breaks. Therefore even though construction could last for 18 years, there is the potential that the same equipment in use at the beginning of the project would be in use at the end of the project.
- Emissions for water truck and Haul trucks taken from EMFAC 2014 for Ventura County for Heavy Heavy Duty Trucks at 15 mph. (See "EMFAC2014 Emission Rates for Haul Trucks", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Emission factors for onsite worker transport trips are from EMFAC2014 for Ventura County for LDA vehicles traveling 15 mph. (See (See "EMFAC2014 Emission Rates for Commuter Vehicles", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Horsepower and load factors taken as the average for each equipment type from Table 3.3 of Appendix D of the CalEEMod User's Guide (BREEZE software, a Division of Trinity Consultants, 2016).
- Tier 4 final Emissions are taken from Table 3.5 of Appendix D of the CalEEMod User Guide (BREEZE software, a Division of Trinity Consultants, 2016). Tier 4 is an EPA standard for emissions of offroad vehicle engines.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Exhaust Emissions

Table 1-5: Emissions Per Offroad Vehicle Type per 8 Hour Work Day

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
				(lbs/day) per Excavation Site				
Rubber Tired Dozers	0.209	4.043	4.531	0.009	0.153	0.153	887.739	0.268
Concrete/Industrial Saws	0.125	2.857	3.859	0.006	0.200	0.200	592.656	0.057
Tractors/Loaders/Backhoes	0.076	1.734	2.342	0.003	0.122	0.122	323.672	0.097
Graders	0.162	3.137	3.516	0.007	0.119	0.119	691.918	0.208
Excavators	0.127	2.457	3.918	0.005	0.203	0.203	536.331	0.162
Scrapers	0.373	7.208	8.078	0.016	0.273	0.273	1560.445	0.469
street sweepers	0.062	1.423	1.921	0.003	0.100	0.100	263.951	0.080
cranes	0.145	2.800	3.138	0.006	0.106	0.106	612.164	0.185
impact chisels	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
grapplers	0.142	2.750	4.385	0.006	0.228	0.228	600.088	0.181
Forklifts	0.038	0.860	1.162	0.002	0.060	0.060	158.719	0.048
Water Truck	0.149	3.793	0.922	0.003	0.016	0.015	620.212	31.011

Equations

- Daily emssions = (Emission Factor X Horse power X Load Factor X Quantity X Hours per day) / 453.6
  - 453.6 grams per pound
  - Emission Factor, Horse Power, and Load Factor from Table 1-3.
  - 8 Hour work day (8 hour of equipment usage)
  - Quantity is assumed to be 1 for the purposes of daily emissions in Table 1-5.
- Daily emissions (Water truck) = (Emission Factor X Miles) / 453.6
  - Assumes water trucks at 90 miles per day for onsite operations (15 mph for 6 hrs per day)
- Impact Chisels are electric and therefore do not have quantifiable onsite emissions.

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Initial Clean Up Equipment Assumptions

Table 1-6: Initial Clean-up Equipment Assumptions

Equipment List	Area IV	O_2 Plant	DOE Demo	Boeing TTF	DOE RMHF/ HWMF
Rubber Tired Dozers	1.5	1.5	0	1	2
Concrete/Industrial Saws	0	0	0.1	0	0
Tractors/Loaders/Backhoes	2.5	2.5	3	1.5	3
Graders	0.75	0.75	0	0.75	1.5
Excavators	1.00	1.00	2.00	1	2
Scrapers	0	0	0	0	0
cranes	0	0	0.25	0	0
impact chisels	0	0	0.5	0	0
grapplers	0	0	0	0	0
Forklifts	1	1	0	1	2
Water Truck	1	1	1	1	2
Haul Trucks (3 years)	76	9	3	3	5
Workers	10	10	23	8	20

* All Boeing activities removed from Initial Clean-up Activities

Table 1-7: Scaling for daily truck trips

	Years	Total Trucks	Haul Trucks	% of Total	Scale to 96 trucks per day	
Area IV	3	34247	44	0.795998	76	69% of the trips are hazardous, the remainder are radiological.
O2 Plant	3	3695	5	0.085882	9	80% of the trips are hazardous the remainder are non-hazardous.
DOE - Demo	2	788	2	0.027473	3	
Boeing - Demo	1	752	0	0	0	No longer part of Initial Clean-up. Truck trips zeroed out to maintain 96 trucks per day over the whole site
TTF - Boeing	0.5	26	2	0.036259	3	
Post Closure - DOE	30	0	0	0	0	
Post Closure - NASA	30	0	0	0	0	
Totals	30	0	55		96	

Sources:
- Equipment type, number of workers, and total haul trucks taken from Table 3-16 in the PD.
- Quantity of each equipment type was provided by DTSC based on current onsite operations.

Equations
- Haul trucks for each program were scaled from the average daily truck trips to a maximum of 96 daily trips for the whole site.
  Air Quality Thresholds are based on daily emissions, therefore 96 haul trucks were used as that is the maximum number of trucks that will access the site per day.
- Average daily trips for the initial projects is equal to 53. Scaled to have a minimum of one truck per day for each phase. (See Table 1-7).
  Haul trucks per day for the initial clean-up were determined by dividing the total number of trucks by the number of years of the activity then by 260 days per year.

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Fugitive Dust Emission Factors

Table 1-8 Emission Factors For Fugitive Dust

	PM10	PM2.5	Units
Scraper/Grader	1.543	0.167	lbs/VMT
Dozer/Excavator	0.753	0.414	lbs/hr
Truck Loading	1.11E-04	1.68E-05	lbs/ton
Mechanical Demolition	1.11E-04	1.68E-05	lbs/ton
Debris Loading	0.020	0.003	lbs/ton
Unpaved Road Haul	0.876	0.088	lbs/VMT
Paved Road - Haul	0.007	0.002	lbs/VMT
Paved Road Commute	7.9E-04	2.0E-04	lbs/VMT

Fugitive emissions from scrapers/graders:

PM_{10} = $(0.051 \times (S)^{2.0}) \times F_{PM10}$
= $(0.051 \times (7.1)^{2.0}) \times 0.6$
= 1.543 lbs/VMT

$PM_{2.5}$ = $(0.04 \times (S)^{2.5}) \times F_{PM2.5}$
= $(0.04 \times (7.1)^{2.5}) \times 0.031$
= 0.167 lbs/VMT

S = mean vehicle speed (mph) Default = 7.1
F_{PM10} = PM_{10} scaling factor default of 0.6
$F_{PM2.5}$ = $PM_{2.5}$ scaling factor default of 0.031

Fugitive emissions from Dozers and Excavators:

PM_{10} = $((C_{PM15} \times s^{1.5})/M^{1.4}) \times F_{PM10}$
= $((1 \times 6.9^{1.5})/7.9^{1.4}) \times 0.75$
= 0.753 lbs/hr
= $((5.7 \times 6.9^{1.2})/7.9^{1.3}) \times 0.105$

C_{PM15} = arbitary coefficient used by AP-42 = 1
s = material silt content = 6.9 %
M = material moisture content = 7.9%
F_{PM10} = PM_{10} scaling factor default of 0.75
$F_{PM2.5}$ = $PM_{2.5}$ scaling factor default of 0.105

Fugitive emissions from truck loading

PM_{10} = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.35 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.11E-04 lbs/ton

$PM_{2.5}$ = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.053 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.68E-05 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.82
M = Material moisture content = 12%

Fugitive Emissions from Mechanical Demolition

PM_{10} = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.35 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.11E-04 lbs/ton

$PM_{2.5}$ = $k \times (0.0032) \times ((U/5)^{1.3}/(M/2)^{1.4})$
= $0.053 \times (0.0032) \times ((5.82/5)^{1.3}/(12/2)^{1.4})$
= 1.68E-05 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.82
M = Material moisture content = 12%

Fugitive Emissions from Debris Loading

PM_{10} = $k \times EF_{L\text{-}TSP}$
= 0.35×0.058
= 0.020 lbs/ton

$PM_{2.5}$ = $k \times EF_{L\text{-}TSP}$
= 0.053×0.058
= 0.003 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
$EF_{L\text{-}TSP}$ = default value = 0.058 lbs/ton

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Onsite Fugitive Emissions

Equations

- Emissons for graders and scrapers = Emission factor x(((Acres / blade width of 12 ft) x 43,560 sqft per acre) / 5,280 ft per mile)
  - Acres are based on table provided on page 8 of CalEEMod Appendix A. (BREEZE software, a Division of Trinity Consultants, 2016).

    scrapers 1 acers/8hr day (conservately uses 1 acre for both because of the type of activities)
  - Emissions include a 63% reduction for required fugitive dust control measures based on VCAPCD regulations and a 69% reduction based on mitigation.
  - Emission factor taken from Table 1-8.
- Emissions for dozers/excavators = # equipment x hours of operation x emission factor
  - Number of dozers and excavators taken from Table 1-6.
  - 8 hours per day
  - Emission factor taken from Table 1-8.
- Emissions for truck loading (soils) = emission factor * tons of material
  - Emission factor taken from Table 1-8.
- Emissions for Excavation truck loading = EF x Tons
  - Tons of soil = tons per truck (Assumed 23) times 2 times the number of trucks (From Table 1-6). Twice the number of trucks is used to account for potential import and unloading of backfill.
- Emissions for Mechanical demolition and debris loading = Emission Factor (lbs/ton) X tons of debris
  - Assumes 23 tons per truck
  - Emission factor taken from Table 1-8.
  - Tons of soil = tons per truck (Assumed 23) times the number of trucks (From Table 1-6).
- Emissions for fugitive dust from unpaved or paved roads = Number of Miles x Number of Trucks x Emission Factor for PM10/PM2.5
  - Equations and constants for unpaved roads taken from EPA's AP-42 13.2.2 Unpaved Roads
  - Equations and constants for Paved roads taken from AP42 - 13.2.1 - Paved Roads
  - Emissions for unpaved roads include a 63% reduction for required fugitive dust control measures based on VCAPCD regulations and a 69% reduction based on mitigation.
  - Assumes 3/4 of haul routes are paved.
  - Emission factor taken from Table 1-8.

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Initial Clean-up - Unmitigated

Reintrained Road Dust

Reintrained Road Dust for haul trucks (onsite - unpaved)

	E=k(s/12)^a(W/3)^b						E	?	size-specific emission factor (lbs/VMT)
E_{PM10} =	1.5*(6.9/12)^0.9*(W/3)^0.45						s	6.9	surface material silt content (%)
=	1.5	*	0.607716545	*	2.5963811		W	25	mean vehicle weight (tons) - Haul Trucks
=	2.367	lbs/VMT	(Uncontrolled) - Haul					2.88	mean vehicle weight (tons) - Commute Vehicle
=	0.876	lbs/VMT	(63% reduction from watering 3x per day) - Haul				k	1.5	constant (lb/VMT)
=	1.5	*	0.607716545	*			a	0.9	constant
=	0.088	lbs/VMT	(63% reduction from watering 3x per day) - Haul				k	0.15	constant (lb/VMT)
							a	0.9	constant

Reintrained Road Dust Emission Factors (Paved Roads):

E =	k(sL)^0.91xW^1.02						k	0.0022	PM10 - particle size multiplier (lbs/VMT)
E_{PM10} =	k*(0.1)^0.91*497^1.02						k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
=	0.0022	*	0.123	*	26.662		sL	0.1	road surace silt loading (g/m^2)
=	0.007	PM10					w	25.00	average weight in tons of the vehicles traveling the road
$E_{PM2.5}$ =	0.00054	*	0.123	*	26.662				
=	0.002	PM2.5							

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Offsite Exhaust Emission Factors

Table 1-9: Mileage and Emission Factors for Haul Trucks (offsite)

Emission Factors (lbs/mile criteria pollutants; MT/mile GHGs)

		Exhaust								Fugitive	
Haul Truck Emission Factors		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	PM10	PM2.5
	< 55 mph	4.7E-04	0.013	0.002	3.5E-05	1.1E-04	1.1E-04	0.002	9.1E-05	0.007	0.002
	55 mph	2.0E-04	0.010	0.001	3.5E-05	1.2E-04	1.1E-04	0.001	7.4E-05		

Distance (by speed)		Total	<55	55
Boeing	Non-Haz	115	7.3	107.7
	Haz	291	7.3	283.7
	Rad	698	7.3	690.7
DOE	Non-Haz	125	7.3	117.7
	Haz	228	7.3	220.7
	Rad	337	7.3	329.7
NASA	Non-Haz	98	7.3	90.7
	Haz	324	7.3	316.7
	Rad	698	7.3	690.7

Reintrained Road Dust Emission Factors:

$E = k(sL)^{0.91} \times W^{1.02}$

E_{PM10} = k*(0.1)^0.91*497^1.02

= 0.0022 * 0.123 * 26.662

= 0.007 PM10

$E_{PM2.5}$ = 0.00054 * 0.123 * 26.662

= 0.002 PM2.5

E	?	particulate emissions (lbs/VMT)
k	0.0022	PM10 - particle size multiplier (lbs/VMT)
k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
sL	0.1	road surace silt loading grams per square meter (g/m^2)
w	25	average weight in tons of the vehicles traveling the road (tons)

Table 1-10: Weighted Emission Factors and Trucks per day for Initial Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	#/day	#/year	Activity
Boeing	Non-Haz	2.21E-04	0.011	9.36E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05			
	Haz	2.11E-04	0.011	8.86E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05	3	780	TTF
	Rad	2.07E-04	0.010	8.66E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.46E-05	0	0	Demolition
DOE	Non-Haz	2.20E-04	0.011	9.30E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05			
	Haz	2.13E-04	0.011	8.95E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.49E-05	55	14,934	Area IV & HWMF
	Rad	2.10E-04	0.010	8.81E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05	26	5,606	Area IV & RMHF
	Rad	2.10E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05	3	780	Demolition
NASA	Non-Haz	2.24E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05	1	260	Liquid O2
	Haz	2.10E-04	0.011	8.82E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05	8	2,080	Liquid O2
	Max	2.24E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05			

Sources
- Trucks per day taken from Table 1-6
- Emission Factors taken from EMFAC2014, maximum emissions from each air district potentially crossed for 55 mph, and weighted average by distance for SCCAB and SCAB for <55MPH.
- Distance assumptions for each waste type provided by DTSC.
- Fugitive road dust taken from USEPA AP42 13.2.2 - Paved Roads

Assumptions
- 453.6 grams per pound
- Weighted average determined by distance and speed for each RP.
- Daily trucks are based on 96 trucks per day.
- Annual truck trips are based on 96 trips per day for 260 days.
- HWMF has 412 trips per year and RMHF has 824 trips per year

Santa Susana Field Laboratory
Initial Clean-up - Unmitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Assumes 23 workers per day
- Assumes 2 trips per worker
- Boeing activities have been removed from initial projects.
- [1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) divided by 453.6 (grams per pound) times miles total miles per day plus fugitive lbs per mile (Table 1-1) times number of miles for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive road dust (Table 1-9) times
		=	total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-6
- Number of Haul Trips per daty taken from Table 1-10
- Miles per waste disposal type taken from Table 1-9

Santa Susana Field Laboratory
Overall Site Clean-up - Unmitigated
Overall Site Cleanup Equipment Assumptions

Table 1-11: Overall Cleanup Equipment Assumptions

Equipment List	Boeing	DOE	NASA	M&M
Rubber Tired Dozers	2	1.5	1.5	0
Concrete/Industrial Saws	0	0	0	0
Tractors/Loaders/Backhoes	3.5	2.5	2.5	0
Graders	2	1	***1***	***0***
Excavators	2.00	1.00	1.00	0.00
Scrapers	0	0	0	0
street sweepers	1	0.5	0.5	0
cranes	0	0	0	0
impact chisels	0	0	0	0
grapplers	0	0	0	0
Forklifts	2	1	1	0
Water Truck	3	1	1	0
Daily Haul Trucks (Air Quality)	32	32	32	0
Workers	150	50	50	72
Years of Operation	12	12	12	0
Non-Haz Soil Truks	17,420	73,260	9,650	0
Haz Soil Trucks	3,520	3,200	45,400	0
Rad Soil Trucks	980	5,940	1,700	0
Total Number of Trucks	21,920	82,400	56,750	0
Maximum Annual Trucks (GHG)	7,020	7,020	6,760	0

Sources
- Equipment lists provided by DTSC
- Hauling assumes 96 trucks per day, 32 for each RP.
- Total trucks by soil type taken from Table 3-4 of the Project Description

Assumptions
- Assumes equipment operates 8 hours per day. Water truck is 90 miles per day (15 mph * 6 hr/day)
- Assumes Boeing has 3 excavation sites per day, DOE has 1 excavation site per day, NASA has one excavation site per day
- Equipment usage is the number of equipment operating a full 8 hours. Therefore, 0.75 of an equipmment or 0.5 of a piece of equipment means operation of 6 or 4 hours per day respectively.
- Maximum annual trucks assumes 80 trucks per day for 260 days per year.

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Offsite Exhaust Emission Factors

Table 1-12: Weighted Emission Factors and Trucks per day for Overall Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

										Max Truks	
		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	/day	/year
Boeing	Non-Haz	2.21E-04	0.011	9.36E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05	32	5,579
	Haz	2.11E-04	0.011	8.86E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05		1,127
	Rad	2.07E-04	0.010	8.66E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.46E-05		314
DOE	Non-Haz	2.20E-04	0.011	9.30E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.54E-05	32	6,241
	Haz	2.13E-04	0.011	8.95E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.49E-05		273
	Rad	2.10E-04	0.010	8.81E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05		506
NASA	Non-Haz	2.24E-04	0.011	9.51E-04	3.53E-05	1.15E-04	1.10E-04	0.002	7.56E-05	32	1,149
	Haz	2.10E-04	0.011	8.82E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.48E-05		5,408
	Rad	2.07E-04	0.010	8.66E-04	3.53E-05	1.15E-04	1.10E-04	0.001	7.46E-05		203

Sources - Emission Factors used to determine weighted emissions taken from Table 1-9.

Assumptions
- 453.6 grams per pound
- Weighted average is based on distance and speed.
- Max Trucks per day assumes maximum potential milage based on number of trucks per waste type and length of trip, and 32 trips per day per RP
- Max trucks per year assumes 80 trucks per day (27 for DOE and Boeing, 26 for NASA) and is weighted to take into account the total amount of trucks per waste type (Table 1-11)

Santa Susana Field Laboratory
Overall Site Cleanup - Unmitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Number of workers per day is taken from Table 1-11. For M&M each RP is assumed to have 3 workers.
- Assumes 2 trips per worker
- Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. Only the maximum for each air district is reported as a worst case scenario. 40 miles per trip was the average trip length assumed for workers.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).
- No haul trucks required for M&M activities.

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) times 453.6 (grams per pound) times miles total miles per day for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive
		=	road dust times total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-11
- Miles for haul truck trips taken from Table 1-9
- Number of haul truck trips taken from Table 1-12

Santa Susana Field Laboratory
Landfill Distance by Air District and Air Basin

Table 1-13 Distance in Air District (Miles)

		From Site	Ventura	Los Angeles	SBDO	Riverside	Riverside	Riverside	Los Angeles	Kern	Kings
Landfill	RP	(Miles)	VCAPCD	SCAQMD					Antelpoe Valley AQMD	SJAPCD	
Antelope Valley	Boeing, DOE	57	0.42	45.78					10.8		
Azusa Land Reclamation	NASA	54	0.42	53.58							
Chiquita Canyon Landfill	Boeing, DOE, NASA	36	0.42	35.58							
Clean Harbors Aragonite	Boeing	680	0.42	65.78	26.74						
Clean Harbors Buttonwillow	Boeing, DOE	125	0.42	67.58						57	
Clean Harbors Colafax	Boeing	1758	0.42	65.78	42.8	16	48.4	61.8			
Clean Harbors Deer Park	Boeing	1608	0.42	65.78	42.8	16	48.4	61.8			
Clean Harbors Deer Trail	Boeing	1089	0.42	27.49					32.92		
Clean Harbors Grassy Mountain	Boeing	698	0.42	65.78	26.74						
Clean Harbors Westmoreland	Boeing, DOE	228	0.42	65.78	42.8	16	64.4				
DeMenno Kerdon	NASA	53	0.42	52.58							
Energy Solutions	Boeing, DOE	690	0.42	26.74							
Equova Water Tech	Boeing, NASA	45	0.42	44.58							
Kettleman Hills Facility	Boeing	181	0.42	67.58						94.45	18.55
Kramer Metals	DOE	46.1	0.42	45.68							
La Paz County Landfill	NASA	324	0.42	65.78	42.8	16	48.4	71.89			
Lancaster Landfill and Recycling Center	Boeing	74	0.42	45.78					27.8		
McKittrick Wast Treatment Site	Boeing, DOE	138	0.42	67.58						71	
Mesquite Regional Landfill	DOE	263	0.42	65.78	42.8	16	64.4				
Nevada National Security Site	DOE	337	0.42	45.78					27.96		
Simi Valley Landfill and Recycling Center	Boeing	21.88	10.29	11.59							
Soil Safe	NASA	97	0.42	45.78					33.06		
Southwest Treatment Systems	Boeing	45	0.42	44.58							
Standard Industries	DOE	36	17.84	18.16							
US Ecology, Beatty	Boeing, NASA	291	0.42	45.78					27.96		
US Ecology, Richland (Through NV)	Boeing	1069	0.42	45.78					27.96		
US Ecology, Richland (Through CA)	Boeing	1069	0.42	67.58						94.45	26.5
US Ecology, Grandview	Boeing, DOE	897	0.42	27.49					32.92		

Santa Susana Field Laboratory
Landfill Distance by Air District and Air Basin

Table 1-13 Distance in Air District (Miles)

	SBDO	Imperial	Kern	Inyo	Fresno	Merced	Stanislaus	Joaquin	Sacramento	Yolo	Colusa	Glenn	Tehama	Shasta	Siskiyou	
Landfill	MDAQMD	Imperial County APCD	EKCAPCD	Great Basin Unified APCD	SJVAPCD				Sacramento	Yolo/Solano	Colusa	Glenn	Tehama	Shasta	Siskiyou	Outside CA
Antelope Valley																
Azusa Land Reclamation																
Chiquita Canyon Landfill																
Clean Harbors Aragonite	161.64															425.42
Clean Harbors Buttonwillow																
Clean Harbors Colafax	27.8															1495
Clean Harbors Deer Park	27.8															1345
Clean Harbors Deer Trail	165.29															862.88
Clean Harbors Grassy Mountain	162.93															442.13
Clean Harbors Westmoreland		38.6														
DeMenno Kerdon																
Energy Solutions	162.93															499.91
Equova Water Tech																
Kettleman Hills Facility																
Kramer Metals																
La Paz County Landfill	52.1															26.61
Lancaster Landfill and Recycling Center																
McKittrick Wast Treatment Site																
Mesquite Regional Landfill		73.6														
Nevada National Security Site			72	142.64												48.2
Simi Valley Landfill and Recycling Center																
Soil Safe	17.74															
Southwest Treatment Systems																
Standard Industries																
US Ecology, Beatty			72	131.4												13.44
US Ecology, Richland (Through NV)			72	156.57												766.27
US Ecology, Richland (Through CA)					66.19	32.3	28.07	49.85	34.2	28.84	33.86	28.55	39.94	61.7	65.74	410.81
US Ecology, Grandview	165.29															670.88

Santa Susana Field Laboratory
Landfill Distance by Air District and Air Basin

Table 1-14 Distance in Air Basin

Landfill	RP	From Site (Miles)	SCCAB	SCAB	SSAB	MDAB	SJVAB	GBVAB	SACVAB	NEPAB	Outside CA
Antelope Valley	Boeing, DOE	57	0.42	45.78	0	10.8	0	0	0	0	0
Azusa Land Reclamation	NASA	54	0.42	53.58	0	0	0	0	0	0	0
Chiquita Canyon Landfill	Boeing, DOE, NASA	36	0.42	35.58	0	0	0	0	0	0	0
Clean Harbors Aragonite	Boeing	680	0.42	92.52	0	161.64	0	0	0	0	425.42
Clean Harbors Buttonwillow	Boeing, DOE	125	0.42	67.58	0	0	57	0	0	0	0
Clean Harbors Colafax	Boeing	1758	0.42	124.58	48.4	89.6	0	0	0	0	1495
Clean Harbors Deer Park	Boeing	1608	0.42	124.58	48.4	89.6	0	0	0	0	1345
Clean Harbors Deer Trail	Boeing	1089	0.42	27.49	0	198.21	0	0	0	0	862.88
Clean Harbors Grassy Mountain	Boeing	698	0.42	92.52	0	162.93	0	0	0	0	442.13
Clean Harbors Westmoreland	Boeing, DOE	228	0.42	124.58	103	0	0	0	0	0	0
DeMenno Kerdon	NASA	53	0.42	52.58	0	0	0	0	0	0	0
Energy Solutions	Boeing, DOE	690	0.42	26.74	0	162.93	0	0	0	0	499.91
Equova Water Tech	Boeing, NASA	45	0.42	44.58	0	0	0	0	0	0	0
Kettleman Hills Facility	Boeing	181	0.42	67.58	0	0	113	0	0	0	0
Kramer Metals	DOE	46.1	0.42	45.68	0	0	0	0	0	0	0
La Paz County Landfill	NASA	324	0.42	124.58	48.4	123.99	0	0	0	0	26.61
Lancaster Landfill and Recycling Center	Boeing	74	0.42	45.78	0	27.8	0	0	0	0	0
McKittrick Wast Treatment Site	Boeing, DOE	139	0.42	67.58	0	0	71	0	0	0	0
Mesquite Regional Landfill	DOE	263	0.42	124.58	138	0	0	0	0	0	0
Nevada National Security Site	DOE	337	0.42	45.78	0	99.96	0	142.64	0	0	48.2
Simi Valley Landfill and Recycling Center	Boeing	21.88	10.29	11.59	0	0	0	0	0	0	0
Soil Safe	NASA	97	0.42	45.78	0	50.8	0	0	0	0	0
Southwest Treatment Systems	Boeing	45	0.42	44.58	0	0	0	0	0	0	0
Standard Industries	DOE	36	17.84	18.16	0	0	0	0	0	0	0
US Ecology, Beatty	Boeing, NASA	291	0.42	45.78	0	99.96	0	131.4	0	0	13.44
US Ecology, Richland (Through NV)	Boeing	1069	0.42	45.78	0	99.96	0	156.57	0	0	766.27
US Ecology, Richland (Through CA)	Boeing	1069	0.42	67.58			297.36	0	227.09	65.74	410.81
US Ecology, Grandview	Boeing, DOE	897	0.42	27.49	0	198.21	0	0	0	0	670.88

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 2
Existing Conditions

Santa Susana Field Laboratory
Existing Conditions

Table 2-1: Existing Conditions - Boeing Commuter Emissions

					lbs/day							
		Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
Boeing	VCAPCD Offsite	31.32	60	1,879	0.090	0.347	3.696	0.013	1.501	0.373	1,251.138	0.050
	SCAQMD	8.68	60	521	0.025	0.096	1.024	0.003	0.416	0.103	346.739	0.014
	Onsite Travel	4.00	30	120	0.015	0.029	0.359	0.001	0.097	0.025	147.118	0.006
	total[1]	44.00	60	2,640	0.130	0.473	5.080	0.017	2.014	0.502	1,744.995	0.069
	VCAPCD	0.42	60	25	0.001	0.005	0.050	1.7E-04	0.020	0.005	16.778	0.001
	SCAQMD	39.58	60	2,375	0.114	0.439	4.671	0.016	1.897	0.472	1,581.099	0.063
	Onsite Travel	4.00	30	120	0.015	0.029	0.359	0.001	0.097	0.025	147.118	0.006
	total[1]	44	60	2,640	0.115	0.444	4.721	0.016	1.917	0.477	1,597.877	0.063
					tons/year						**MT/year**	
					ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
	VCAPCD	31.32	15,600	488,592	0.012	0.045	0.481	0.002	0.195	0.049	147.552	0.006
	SCAQMD	8.68	15,600	135,408	0.003	0.013	0.133	4.5E-04	0.054	0.013	40.892	0.002
	Onsite Travel	4.00	15,600	62,400	0.002	0.004	0.047	1.0E-04	0.013	0.003	17.350	0.001
	total[1]	44	15,600	686,400	0.017	0.062	0.660	0.002	0.262	0.065	205.794	0.008
	VCAPCD	0.42	15,600	6,552	1.6E-04	0.001	0.006	2.2E-05	0.003	0.001	1.979	0.000
	SCAQMD	39.58	15,600	617,448	0.015	0.057	0.607	0.002	0.247	0.061	186.465	0.007
	Onsite Travel	4.00	15,600	62,400	0.002	0.004	0.047	1.0E-04	0.013	0.003	17.350	0.001
	total[1]	44	15,600	686,400	0.017	0.062	0.660	0.002	0.262	0.065	205.794	0.008

*Totals may not add exactly due to rounding.

Assumptions

- Boeing has 15 workers and 15 contractors, DOE has 2 workers, and NASA has 6 workers. Existing onsite emissions are based on the operations occurring onsite at the time of the NOP. The NOP was completed before the NASA demolition of existing structures. The personnel onsite consists of one NASA civil servant and four NASA contractors for environmental investigation (NASA, 2016). The analysis assumed 6 workers as a worst case scenario based on the information provided at the time the analysis was conducted.
- [1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.
- Average 4 mile onsite round trip in addition to the offsite.
- Emissions occur 260 days per year = 52 weeks x 5 days per week.
- Miles provided for offsite trips are one way miles and the analysis assumes two one way trips per employee (one to and one from the site)

Santa Susana Field Laboratory
Existing Conditions

Equations: (For daily and annual pollutant concentrations)

emission factors (lbs/mile) = emission factor in grams per mile (Table 1-1) divided by 453.6 (grams per pound)

Miles = miles per trip times number of trips.

pollutant calculations

lbs/day = emission factor in lbs/mile time number of miles. PM10 and PM2.5 include fugitive emissions from road travel.

tons/year = lbs/day multiplied by 260 days divided by 2000 lbs per ton.

MT/year = lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Note: Assumptions and equations are the same for all RPs and therefore are not repeated for each set of cacluations

Table 2-2: Existing Conditions - DOE Commuter Emissions

					lbs/day							
		Miles/trip	**# trips**	**Miles**	**ROC/VOC**	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
DOE	VCAPCD Offsite	31.32	4	125	0.006	0.023	0.246	0.001	0.100	0.025	83.409	0.003
	SCAQMD	8.68	4	35	0.002	0.006	0.068	2.3E-04	0.028	0.007	23.116	0.001
	Onsite Travel	4	2	8	3.8E-04	0.001	0.016	5.3E-05	0.006	0.002	5.326	2.1E-04
	total[1]	44.00	4	176	0.008	0.031	0.330	0.001	0.134	0.033	111.851	0.004
	VCAPCD	0.42	4	2	0.000	0.000	0.003	1.1E-05	0.001	3.3E-04	1.119	4.4E-05
	SCAQMD	39.58	4	158	0.008	0.029	0.311	0.001	0.126	0.031	105.407	0.004
	Onsite Travel	4	2	8	3.8E-04	0.001	0.016	5.3E-05	0.006	0.002	5.326	2.1E-04
	total[1]	44	4	176	0.008	0.030	0.315	0.001	0.128	0.032	106.525	0.004
					tons/year						**MT/year**	
					ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
	VCAPCD	31.32	1,040	32,573	0.001	0.003	0.032	1.1E-04	0.013	0.003	9.837	3.9E-04
	SCAQMD	8.68	1,040	9,027	2.2E-04	0.001	0.009	3.0E-05	0.004	0.001	2.726	1.1E-04
	Onsite Travel	4	1,040	4,160	5.0E-05	1.9E-04	0.002	6.9E-06	0.001	0.000	0.628	2.5E-05
	total[1]	44	1,040	45,760	0.001	0.004	0.043	1.5E-04	0.017	0.004	13.191	0.001
	VCAPCD	0.42	1,040	437	1.0E-05	4.0E-05	4.3E-04	1.5E-06	1.7E-04	4.3E-05	0.132	5.2E-06
	SCAQMD	39.58	1,040	41,163	0.001	0.004	0.040	1.4E-04	0.016	0.004	12.431	4.9E-04
	Onsite Travel	4	1,040	4,160	5.0E-05	1.9E-04	0.002	6.9E-06	0.001	0.000	0.628	2.5E-05
	total[1]	44	1,040	45,760	0.001	0.004	0.043	1.5E-04	0.017	0.004	13.191	0.001

*Totals may not add exactly due to rounding.

- Emissions occur 260 days per year = 52 weeks x 5 days per week.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Existing Conditions

Table 2-3: Existing Conditions - NASA Commuter Emissions

		Miles/trip	# trips	Miles	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
NASA	VCAPCD Offsite	31.32	12	376	0.018	0.069	0.739	0.003	0.300	0.075	250.228	0.010
	SCAQMD	8.68	12	104	0.005	0.019	0.205	0.001	0.083	0.021	69.348	0.003
	Onsite Travel	4	6	24	0.001	0.004	0.047	1.6E-04	0.019	0.005	15.979	0.001
	total[1]	44	30	504	0.024	0.093	0.991	0.003	0.403	0.100	335.554	0.013
	VCAPCD	0.42	12	5	2.4E-04	0.001	0.010	3.4E-05	0.004	0.001	3.356	0.000
	SCAQMD	39.58	12	475	0.023	0.088	0.934	0.003	0.379	0.094	316.220	0.013
	Onsite Travel	4	6	24	0.001	0.004	0.047	1.6E-04	0.019	0.005	15.979	0.001
	total[1]	44	12	528	0.023	0.089	0.944	0.003	0.383	0.095	319.575	0.013
					tons/year						MT/year	
					ROC/VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$	CO_2	CH_4
	VCAPCD	31.32	3,120	97,718	0.002	0.009	0.096	3.3E-04	0.039	0.010	29.510	0.001
	SCAQMD	8.68	3,120	27,082	0.001	0.003	0.027	9.0E-05	0.011	0.003	8.178	3.2E-04
	Onsite Travel	4	3,120	12,480	1.5E-04	0.001	0.006	2.1E-05	0.003	0.001	1.884	7.5E-05
	total[1]	44	7,800	343,200	0.003	0.012	0.129	4.4E-04	0.052	0.013	39.573	0.002
	VCAPCD	0.42	3,120	1,310	3.1E-05	0.000	0.001	4.4E-06	0.001	0.000	0.396	1.6E-05
	SCAQMD	39.58	3,120	123,490	0.003	0.011	0.121	4.1E-04	0.049	0.012	37.293	0.001
	Onsite Travel	4	3,120	12,480	1.5E-04	0.001	0.006	2.1E-05	0.003	0.001	1.884	7.5E-05
	total[1]	44	3,120	137,280	0.003	0.012	0.129	4.4E-04	0.052	0.013	39.573	0.002

*Totals may not add exactly due to rounding.

- Emissions occur 260 days per year = 52 weeks x 5 days per week.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Existing Conditions

Total Daily Emissions for Existing Conditions:

Table 2-4: Existing Conditions - Total Daily Mobile Emissions

	lbs/day							
	ROC/VOC	**NOx**	**CO**	**SO_x**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
Boeing	0.130	0.473	5.080	0.017	2.014	0.502	1,744.995	0.069
DOE	0.008	0.031	0.330	0.001	0.134	0.033	111.851	0.004
NASA	0.024	0.093	0.991	0.003	0.403	0.100	335.554	0.013
total	0.162	0.597	6.401	0.021	2.551	0.635	2,192.401	0.087

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Existing Conditions

Electrical Consumption

117,602	kWh per month				
1,411,224	kWh per year				
1,411	MWh per year				
702.43634	CO_2 intensity Factor	991,295	lbs/MWh CO_2	991,295	lbs/MWh CO_2e
0.029	CH_4 Intensity Factor	41	lbs/MWh CH_4	1,023	lbs/MWh CO_2e
0.00617	N_2O Intensity Factor	9	lbs/MWh N_2O	2,595	lbs/MWh CO_2e
				994,913	Total Lbs/MWh CO_2e
				451	Total MT CO_2e

Sources: Intensity Factors: Taken from the CalEEMod model version 2016.3.1 for SCE.
kWh per month: Taken from the Energy Section of the EIR.

Equations: (For Electrical consumptions)

kWh per year = kWh per month multiplied by 12 months per year.

MWh per year = kWh per year divided by 1,000 kilowatts per megawatt.

lbs/MWhr (per pollutant) = MWh per year multiplied by the pollutant specific carbon intensity factor.

lbs/MWhr (CO_2e) = lbs/MWh multiplied by the global warming potential for each pollutant (CO = 1; CH_4 = 25; N_2O = 298).

MT CO_2e = Total lbs/MWh CO_2e divided by 2004.62 metric tons per pound.

*Note: All total values may not add directly due to rounding.

Santa Susana Field Laboratory
Existing Conditions

Annual GHG Emissions Summary for Existing Conditions

Table 2-5: Existing Conditions - Total Annual GHG Emissions

	MT/year			
	CO_2	**CH_4**	**N_2O**	**CO_2e**
Electrical	449.648	0.464	1.177	451.290
Boeing WC	205.794	0.008	-	205.802
DOE WC	13.191	0.001	-	13.192
NASA WC	39.573	0.002	-	39.575
Total Existing				709.858

*WC = worker commute for this table.
*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 3
Unmitigated Initial Clean-up Programs

Santa Susana Field Laboratory
Unmitigated GHG Emissions Summary

Table 4-1: Sumamry of Overall Cleanup Emissions				
Unmitigated Overall Cleanup GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Overall Cleanup				
Onsite	2,236	34		2,270
Offsite	13,151	579		13,730
Overall Cleanup Per Year	15,387	613		16,000
Monitoring and Maintenance				
Mobile	711	0.028	0.000	711
Energy	450	0.464	1.177	451
Total	1,160	0.492	1.177	1,162
Maximum Project Total[2]				17,162
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 96 trucks per day

[2] Maximum Project Total is the sum of the monitoring and maintenance emissions plus the Overall Sources: Tables 2-5, 4-2 through 4-9. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

Table 3-1: Sumamry of Initial Clean-up Emissions				
Unmitigated Initial Project GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Area IV	10,596	506		11,103
Liquid Oxygen Plant	2,476	100		2,576
Demolition - DOE	1,167	38		1,205
TTF - Boeing	737	18		755
RMHF/HWMF - DOE	1,305	27		1,332
Initial Projects Total	16,280	690		***16,970***
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 73 trucks per day

Sources: Tables 3-2 through 3-12. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

*Note Offsite emissions for the RCRA and Post Closure are included in the other activities for that RP

Santa Susana Field Laboratory
Unmitigated - Onsite Initial Clean-up - Emissions
Initial Clean Up Emissions

Table 3-2: Onsite Initial Clean-up Emissions

	(Lbs/day)		(MT/year)		
	CO_2	CH_4	CO_2	CH_4/N_2O	CO_2e
Area IV - DOE					
Exhaust	4,107	32.06	484.351	3.781	488.132
Crew	7	0.33	0.771	0.039	0.810
Haul	NC	NC	1.079	0.054	1.133
Total	4,114	32.39	485.122	3.820	488.942
Liquid Oxygen Plant - NASA					
Exhaust	4,107	32.06	484.351	3.781	488.132
Crew	7	0.33	0.771	0.039	0.810
Haul	NC	NC	0.128	0.006	0.134
Total	4,114	32.39	485.122	3.820	488.942
Demolition - DOE					
Exhaust	2,876	31.68	339.201	3.736	342.937
Crew	15	0.75	1.774	0.089	1.862
Haul	NC	NC	0.043	0.002	0.045
Total	2,891	32.43	340.975	3.825	344.800
TTF - Boeing					
Exhaust	3,339	31.83	393.832	3.754	397.585
Crew	5	0.26	0.617	0.031	0.648
Haul	NC	NC	0.043	0.002	0.045
Total	3,345	32.09	394.448	3.785	398.233
RMHF/HWMF - DOE					
Exhaust	6,679	63.66	787.663	7.508	795.171
Crew	13	0.65	1.542	0.077	1.619
Haul	NC	NC	0.071	0.004	0.075
Total	6,692	64.32	789.205	7.585	796.790

*NC = Not Calculated

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Onsite Initial Clean-up - Emissions
Initial Clean Up Emissions

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-6.
- Daily emssions (crew (onsite worker transport)) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 3-1.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
  - **2** trips/day
- Total Daily Emissions for each GHG is the sume of the daily exhaust, haul truck, and crew emissions.
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623 - Exhaust and Crew
  - Daily Emissions from Table 3-3.
  - 2,204.62 lbs per Metric Ton
  - 260 days per year
- Annual emssions (haul trucks) (MT/year)
  = (Emission Factorexhaust X number of trips X Miles) + (Emission Factoridle * Number of trucks * Minutes) /1,000,000
  - Emission Factors from Table 1-4.
  - Number of Trips from Table 1-6
  - **4** miles/ round trip
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
  - 1,000,000 g/MT

Santa Susana Field Laboratory
Unmitigated - Offsite Initial Clean-up Emissions

Demolition Offsite Emissions - DOE

Table 3-3 Offsite Demolition - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	46	1,441	959	0	113.123	0.004	113.127
SCAQMD	8.68	46	399	266	0	31.351	0.001	31.352
total[1]	40	46	1,840	1,225	0	144.474	0.006	144.479
VCAPCD	0.42	46	19	13	0	1.517	0.000	1.517
SCAQMD	39.58	46	1,821	1,212	0	142.957	0.006	142.962
total[1]	40	46	1,840	1,225	0	144.474	0.006	144.479

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 3-4 Offsite Demolition - DOE Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Radiological Disposal Site						
VCAPCD	0.42	1,560	655	0.991	0.050	1.041
SCAQMD	45.78	1,560	71,417	108.021	5.401	113.423
Other CA	242.6	1,560	378,456	572.433	28.622	601.055
Non-CA	48.2	1,560	75,192	113.732	5.687	119.418
Total	288.8	1,560	450,528	681.446	34.072	715.518
Maximum Emissions by Air Basin						
SCCAB	0.42	1,560	655	0.991	0.050	1.041
SCAB	45.78	1,560	71,417	108.021	5.401	113.423
SSAB	0.00	1,560	0	0.000	0.000	0.000
MDAB	198.21	1,560	309,208	467.692	23.385	491.076
SJVAB	0.00	1,560	0	0.000	0.000	0.000
GBVAB	142.64	1,560	222,518	336.570	16.829	353.399
SACVAB	0.00	1,560	0	0.000	0.000	0.000
NEPAB	0.00	1,560	0	0.000	0.000	0.000
Outside CA	670.88	1,560	1,046,573	1,582.993	79.150	1,662.143

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Initial Clean-up Emissions

Area IV Offsite Emissions

Table 3-5 Area IV Offsite - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	20	626	417.05	0.02	49.184	0.002	49.186
SCAQMD	8.68	20	174	115.58	0.00	13.631	0.001	13.631
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817
VCAPCD	0.42	20	8	5.59	0.00	0.660	0.000	0.660
SCAQMD	39.58	20	792	527.03	0.02	62.155	0.002	62.158
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 3-6 Area IV Offsite - DOE Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Radiological Disposal Site						
VCAPCD	0.42	11,211	4,709	7.042	0.352	7.394
SCAQMD	45.78	11,211	513,249	767.567	38.378	805.946
Other CA	242.6	11,211	2,719,837	4,067.537	203.377	4,270.913
Other Non-CA	48.2	11,211	540,380	808.142	40.407	848.549
Total	288.8	11,211	3,237,795	4,842.146	242.107	5,084.253
Hazardous Waste Disposal Site						
VCAPCD	0.42	27,789	11,671	17.494	0.875	18.368
SCAQMD	124.58	27,789	3,461,929	5,188.905	259.445	5,448.351
Other CA	0	27,789	0	0.000	0.000	0.000
Other Non-CA	0	27,789	0	0.000	0.000	0.000
Total	125	27,789	3,473,600	5,206.399	260.320	5,466.719
Maximum Emissions by Air Basin						
SCCAB	0.42	39,000	16,380	24.551	1.228	25.779
SCAB	124.58	39,000	4,858,620	7,282.333	364.117	7,646.450
SSAB	103	39,000	4,017,000	6,020.873	301.044	6,321.917
MDAB	198.21	39,000	7,730,190	11,586.381	579.319	12,165.700
SJVAB	57	39,000	2,223,000	3,331.939	166.597	3,498.536
GBVAB	142.64	39,000	5,562,960	8,338.032	416.902	8,754.934
SACVAB	0	39,000	0	0.000	0.000	0.000
NEPAB	0	39,000	0	0.000	0.000	0.000
Outside CA	670.88	39,000	26,164,320	39,216.342	1,960.817	41,177.159

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Initial Clean-up Emissions

Liquid Oxygen Plant Offsite Emissions

Table 3-7 Liquid Oxygen Plant Offsite - NASA Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	20	626	417.05	0.02	49.184	0.002	49.186
SCAQMD	8.68	20	174	115.58	0.00	13.631	0.001	13.631
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817
VCAPCD	0.42	20	8	5.59	0.00	0.660	0.000	0.660
SCAQMD	39.58	20	792	527.03	0.02	62.155	0.002	62.158
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 3-8 Liquid Oxygen Plant Offsite - NASA Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Non-hazardous Waste Disposal Site						
VCAPCD	10.29	520	5,351	8.093	0.405	8.498
SCAQMD	53.58	520	27,862	42.142	2.107	44.249
Other CA	34.13	520	17,748	26.844	1.342	28.186
Other Non-CA	0	520	0	0.000	0.000	0.000
Total	98	520	50,960	77.080	3.854	80.933
Hazardous Waste Disposal Site						
VCAPCD	0.42	4,160	1,747	2.613	0.131	2.744
SCAQMD	124.58	4,160	518,253	775.196	38.760	813.956
Other CA	172.39	4,160	717,142	1,072.693	53.635	1,126.328
Other Non-CA	26.61	4,160	110,698	165.580	8.279	173.859
Total	297.39	4,160	1,237,142	1,850.503	92.525	1,943.028
Maximum Emissions by Air Basin						
SCCAB	0.42	4,680	1,966	2.973	0.149	3.122
SCAB	124.58	4,680	583,034	881.868	44.093	925.962
SSAB	48.4	4,680	226,512	342.611	17.131	359.741
MDAB	123.99	4,680	580,273	877.692	43.885	921.576
SJVAB	0	4,680	0	0.000	0.000	0.000
GBVAB	131.4	4,680	614,952	930.145	46.507	976.652
SACVAB	0	4,680	0	0.000	0.000	0.000
NEPAB	0	4,680	0	0.000	0.000	0.000
Outside CA	26.61	4,680	124,535	188.365	9.418	197.783

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Initial Clean-up Emissions

TTF Offsite -Boeing

Table 3-9 TTF Offsite - Boeing Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	16	501	333.64	0.01	39.347	0.002	39.349
SCAQMD	8.68	16	139	92.46	0.00	10.905	0.000	10.905
total[1]	40	16	640	426.10	0.02	50.252	0.002	50.254
VCAPCD	0.42	16	7	4.47	0.00	0.528	0.000	0.528
SCAQMD	39.58	16	633	421.63	0.02	49.724	0.002	49.726
total[1]	40	16	640	426.10	0.02	50.252	0.002	50.254

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 3-10 TTF Offsite - Boeing Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Hazardous Waste Disposal Site						
VCAPCD	0.42	1,560	655	0.981	0.049	1.030
SCAQMD	124.58	1,560	194,345	290.859	14.543	305.402
Other CA	0	1,560	0	0.000	0.000	0.000
Other Non-CA	0	1,560	0	0.000	0.000	0.000
Total	125	1,560	195,000	291.839	14.592	306.431
Radiological Disposal Site						
VCAPCD	0.42	0	0	0.000	0.000	0.000
SCAQMD	45.78	0	0	0.000	0.000	0.000
Other CA	242.6	0	0	0.000	0.000	0.000
Other Non-CA	48.2	0	0	0.000	0.000	0.000
Total	288.8	0	0	0.000	0.000	0.000
Maximum Emissions by Air Basin						
SCCAB	0.42	1,560	655	0.981	0.049	1.030
SCAB	92.52	1,560	144,331	216.008	10.800	226.808
SSAB	0.00	1,560	0	0.000	0.000	0.000
MDAB	198.21	1,560	309,208	462.764	23.138	485.902
SJVAB	297.36	1,560	463,882	694.251	34.713	728.963
GBVAB	156.57	1,560	244,249	365.546	18.277	383.824
SACVAB	227.09	1,560	354,260	530.190	26.510	556.700
NEPAB	65.74	1,560	102,554	153.484	7.674	161.158
Outside CA	862.88	1,560	1,346,093	2,014.579	100.729	2,115.308

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Initial Clean-up Emissions

RMHF/HWMF - DOE

Table 3-11 RMHF/HWMF - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	40	1,253	834.09	0.03	98.37	0.00	98.37
SCAQMD	8.68	40	347	231.16	0.01	27.26	0.00	27.26
total[1]	40	40	1,600	1065.25	0.04	125.63	0.00	125.63
VCAPCD	0.42	40	17	11.19	0.00	1.32	0.00	1.32
SCAQMD	39.58	40	1,583	1054.07	0.04	124.31	0.00	124.32
total[1]	40	40	1,600	1065.25	0.04	125.63	0.00	125.63

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

RMHF/HWMF - DOE

Table 3-12 RMHF/HWMF - DOE Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Hazardous Waste Disposal Site						
VCAPCD	0.42	2,080	874	1.309	0.065	1.375
SCAQMD	124.58	2,080	259,126	388.391	19.420	407.811
Other CA	0	2,080	0	0.000	0.000	0.000
Other Non-CA	0	2,080	0	0.000	0.000	0.000
Total	125	2,080	260,000	389.701	19.485	409.186
Radiological Disposal Site						
VCAPCD	0.42	0	0	0.000	0.000	0.000
SCAQMD	45.78	0	0	0.000	0.000	0.000
Other CA	242.6	0	0	0.000	0.000	0.000
Other Non-CA	48.2	0	0	0.000	0.000	0.000
Total	288.8	0	0	0.000	0.000	0.000
Maximum Emissions by Air Basin						
SCCAB	0.42	2,080	874	1.309	0.065	1.375
SCAB	124.58	2,080	259,126	388.391	19.420	407.811
SSAB	103.00	2,080	214,240	321.113	16.056	337.169
MDAB	198.21	2,080	412,277	617.940	30.897	648.837
SJVAB	57.00	2,080	118,560	177.703	8.885	186.589
GBVAB	142.64	2,080	296,691	444.695	22.235	466.930
SACVAB	0.00	2,080	0	0.000	0.000	0.000
NEPAB	0.00	2,080	0	0.000	0.000	0.000
Outside CA	670.88	2,080	1,395,430	2,091.538	104.577	2,196.115

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 4
Unmitigated Overall Cleanup Emissions

Santa Susana Field Laboratory
Unmitigated GHG Emissions Summary

Table 4-1: Sumamry of Overall Cleanup Emissions				
Unmitigated Overall Cleanup GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Overall Cleanup				
Onsite	2,236	34		2,270
Offsite	13,151	579		13,730
Overall Cleanup Per Year	15,387	613		16,000
Monitoring and Maintenance				
Mobile	711	0.028	0.000	711
Energy	450	0.464	1.177	451
Total	1,160	0.492	1.177	1,162
Maximum Project Total[2]				17,162
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 96 trucks per day

[2] Maximum Project Total is the sum of the monitoring and maintenance emissions plus the Overall Sources: Tables 2-5, 4-2 through 4-9. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

Table 3-1: Sumamry of Initial Clean-up Emissions				
Unmitigated Initial Project GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Area IV	10,596	506		11,103
Liquid Oxygen Plant	2,476	100		2,576
Demolition - DOE	1,167	38		1,205
TTF - Boeing	737	18		755
RMHF/HWMF - DOE	1,305	27		1,332
Initial Projects Total	16,280	690		***16,970***
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 73 trucks per day

Sources: Tables 3-2 through 3-12. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

*Note Offsite emissions for the RCRA and Post Closure are included in the other activities for that RP

Santa Susana Field Laboratory
Unmitigated - Onsite Overall Cleanup Emissions

Overall Cleanup Emissions

Table 4-2: Onsite Overall Cleanup Emissions

	(Lbs/day)		(MT/year)		
	CO_2	CH_4	CO_2	CH_4/N_2O	CO_2e
Boeing					
Exhaust	7,807	95	920.693	11.183	931.877
Haul Trucks	N/C	N/C	99.657	4.983	104.640
Crew	49.04	2.45	5.783	0.289	6.073
Total	7,856	97	1,026.134	16.455	1,042.589
DOE					
Exhaust	4,280	32	504.751	3.787	508.538
Haul Trucks	N/C	N/C	99.657	4.983	104.640
Crew	19.62	0.98	2.313	0.116	2.429
Total	4,300	33	606.721	8.886	615.607
NASA					
Exhaust	4,280	32	504.751	3.787	508.538
Haul Trucks	N/C	N/C	95.966	4.798	100.764
Crew	19.62	0.98	2.313	0.116	2.429
Total	4,300	33	603.030	8.701	611.731

*Totals may not add exactly due to rounding.

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-11.
- Daily emssions (crew (onsite worker transport)) (lbs/day) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 1-11.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
- Total Daily Emissions (lbs/day) for each criteria pollutant is the sum of the daily exhaust, haul truck, and crew emissions.
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623 - For Exhaust and Crew emissions
  - Daily Emissions from Table 4-6.
  - 2,204.62 lbs per Metric Ton
  - 260 days per year
- Annual emssions (haul trucks) (MT/year)
  = (Emission Factorexhaust X number of trips X Miles) + (Emission Factoridle * Number of trucks * Minutes) /1,000,000
  - 20,800 trucks per year per year for the site (See Table 1-11).
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
  - 1,000,000.00 g/metric ton
  - 260 days per year
  - Emission Factors from Table 1-4.
  - **4** miles/ round trip

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

Boeing

Table 4-3: Offsite Overall - Boeing Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	**# trips**	**Miles**	**CO_2**	**CH_4**	**CO_2**	**CH_4**	**CO_2e**
Worker Commute								
VCAPCD	31.32	300	9,396	6,256	0.25	737.758	0.029	737.787
SCAQMD	8.68	300	2,604	1,734	0.07	204.462	0.008	204.470
total[1]	40	300	12,000	7,989	0.32	942.220	0.037	942.257
VCAPCD	0.42	300	126	84	0.00	9.893	0.000	9.894
SCAQMD	39.58	300	11,874	7,905	0.31	932.327	0.037	932.364
total[1]	40	300	12,000	7,989	0.32	942.220	0.037	942.257

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

Table 4-4: Offsite Overall - Boeing Haul Emissions

				MT/Year		
	Miles/trip	**Trips**	**Miles**	**CO_2**	**CH_4**	**CO_2e**
Non-Hazardous						
VCAPCD	10.29	11,158	114,813	173.252	8.663	181.915
SCAQMD	67.58	11,158	754,037	1,137.840	56.892	1,194.732
Other CA	37.13	11,158	414,285	625.156	31.258	656.413
Non-CA	0	11,158	0	0.000	0.000	0.000
total1	115	11,158	1,283,136	1,936.248	96.812	2,033.060
Hazardous						
VCAPCD	0.42	2,255	947	1.417	0.071	1.488
SCAQMD	124.58	2,255	280,878	420.365	21.018	441.383
Other CA	166	2,255	374,263	560.127	28.006	588.133
Non-CA	0	2,255	0	0.000	0.000	0.000
total1	291	2,255	656,088	981.909	49.095	1,031.005
Radiological Soil						
VCAPCD	0.42	628	264	0.393	0.020	0.413
SCAQMD	92.52	628	58,075	86.642	4.332	90.974
Other CA	162.93	628	102,271	152.578	7.629	160.207
Non-CA	442.13	628	277,525	414.038	20.702	434.740
total1	698	628	160,610	239.613	11.981	251.593
Total Emissions						
VCAPCD			116,023	175.063	8.753	183.816
SCAQMD			1,092,990	1,644.847	82.242	1,727.089
Other CA			890,820	1,337.860	66.893	1,404.753
Non-CA			277,525	414.038	20.702	434.740
total1			2,099,834	3,157.770	157.888	3,315.658
Maximum Emissions By Air Basin						
SCCAB	10.29	14,040	144,472	218.007	10.900	228.908
SCAB	124.58	14,040	1,749,103	2,639.392	131.970	2,771.361
SSAB	48.40	14,040	679,536	1,025.418	51.271	1,076.689
MDAB	198.21	14,040	2,782,868	4,199.340	209.967	4,409.307
SJVAB	297.36	14,040	4,174,934	6,299.964	314.998	6,614.962
GBVAB	156.57	14,040	2,198,243	3,317.142	165.857	3,482.999
SACVAB	227.09	14,040	3,188,344	4,811.201	240.560	5,051.761
NEPAB	65.74	14,040	922,990	1,392.789	69.639	1,462.428
Outside CA	1495.00	14,040	20,989,800	31,673.547	1,583.677	33,257.224

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

DOE

Table 4-5: Offsite Overall - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	**# trips**	**Miles**	**CO_2**	**CH_4**	**CO_2**	**CH_4**	**CO_2e**
Worker Commute								
VCAPCD	31.32	100	3,132	2,085	0.08	245.919	0.010	245.929
SCAQMD	8.68	100	868	578	0.02	68.154	0.003	68.157
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086
VCAPCD	0.42	100	42	28	0.00	3.298	0.000	3.298
SCAQMD	39.58	100	3,958	2,635	0.10	310.776	0.012	310.788
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

DOE

Table 4-6: Offsite Overall - DOE Haul Emissions

				MT/year		
	Miles/trip	**Trips**	**Miles**	**CO_2**	**CH_4**	**CO_2e**
Non-Hazardous						
VCAPCD	0.42	12,483	5,243	7.903	0.395	8.298
SCAQMD	67.58	12,483	843,578	1,271.574	63.579	1,335.153
Other CA	57	12,483	711,511	1,072.503	53.625	1,126.128
Non-CA	0	12,483	0	0.000	0.000	0.000
total1	125	12,483	1,560,331	2,351.979	117.599	2,469.578
Hazardous						
VCAPCD	0.42	545	229	0.343	0.017	0.360
SCAQMD	124.58	545	67,926	101.811	5.091	106.902
Other CA	103	545	56,160	84.175	4.209	88.384
Non-CA	0	545	0	0.000	0.000	0.000
total1	228	545	124,315	186.330	9.316	195.646
Radiological Soil						
VCAPCD	0.42	1,012	425	0.636	0.032	0.668
SCAQMD	45.78	1,012	46,334	69.293	3.465	72.758
Other CA	242.6	1,012	245,537	367.203	18.360	385.563
Non-CA	48.2	1,012	48,784	72.956	3.648	76.604
total1	337	1,012	292,296	437.132	21.857	458.988
Total Emissions						
VCAPCD			5,897	8.882	0.444	9.326
SCAQMD			957,838	1,442.679	72.134	1,514.812
Other CA			1,013,208	1,523.880	76.194	1,600.074
Non-CA			48,784	72.956	3.648	76.604
total1			2,025,727	2,975.441	148.772	3,124.213
Maximum Emissions By Air Basin						
SCCAB	17.84	14,040	250,474	377.554	18.878	396.431
SCAB	124.58	14,040	1,749,103	2,636.526	131.826	2,768.353
SSAB	138.00	14,040	1,937,520	2,920.538	146.027	3,066.565
MDAB	198.21	14,040	2,782,868	4,194.781	209.739	4,404.520
SJVAB	71.00	14,040	996,840	1,502.596	75.130	1,577.725
GBVAB	142.64	14,040	2,002,666	3,018.736	150.937	3,169.673
SACVAB	0.00	14,040	0	0.000	0.000	0.000
NEPAB	0.00	14,040	0	0.000	0.000	0.000
Outside CA	670.88	14,040	9,419,155	14,198.047	709.902	14,907.950

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

NASA

Table 4-7: Offsite Overall - NASA Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	**# trips**	**Miles**	**CO_2**	**CH_4**	**CO_2**	**CH_4**	**CO_2e**
Worker Commute								
VCAPCD	31.32	100	3,132	2,085	0.08	245.919	0.010	245.929
SCAQMD	8.68	100	868	578	0.02	68.154	0.003	68.157
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086
VCAPCD	0.42	100	42	28	0.00	3.298	0.000	3.298
SCAQMD	39.58	100	3,958	2,635	0.10	310.776	0.012	310.788
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

NASA

Table 4-8: Offsite Overall - NASA Haul Emissions

				MT/year		
	Miles/trip	**Trips**	**Miles**	**CO_2**	**CH_4**	**CO_2e**
Non-Hazardous						
VCAPCD	10.29	2,299	23,657	35.782	1.789	37.571
SCAQMD	53.58	2,299	123,180	186.316	9.316	195.632
Other CA	34.13	2,299	78,465	118.682	5.934	124.616
Non-CA	0	2,299	0	0.000	0.000	0.000
total1	98	2,299	225,302	340.780	17.039	357.819
Hazardous						
VCAPCD	0.42	10,816	4,543	6.871	0.344	7.215
SCAQMD	124.58	10,816	1,347,457	2,038.096	101.905	2,140.000
Other CA	172.39	10,816	1,864,570	2,820.254	141.013	2,961.267
Non-CA	26.61	10,816	287,814	435.333	21.767	457.099
total1	324	10,816	3,216,570	4,865.221	243.261	5,108.482
Radiological Soil						
VCAPCD	0.42	405	170	0.254	0.013	0.267
SCAQMD	92.52	405	37,471	56.049	2.802	58.851
Other CA	305.57	405	123,757	185.115	9.256	194.370
Non-CA	299.49	405	121,295	181.431	9.072	190.503
total1	698	405	161,398	241.418	12.071	253.488
Total Emissions						
VCAPCD			28,369	42.907	2.145	45.053
SCAQMD			1,508,108	2,280.460	114.023	2,394.483
Other CA			2,066,792	3,124.051	156.203	3,280.253
Non-CA			409,109	616.764	30.838	647.602
total1			3,603,270	5,447.418	272.371	5,719.789
Maximum Emissions By Air Basin						
SCCAB	0.42	13,520	5,678	8.589	0.429	9.018
SCAB	124.58	13,520	1,684,322	2,547.619	127.381	2,675.000
SSAB	48.40	13,520	654,368	989.764	49.488	1,039.252
MDAB	198.21	13,520	2,679,799	4,053.328	202.666	4,255.995
SJVAB	297.36	13,520	4,020,307	6,080.913	304.046	6,384.959
GBVAB	156.57	13,520	2,116,826	3,201.804	160.090	3,361.895
SACVAB	227.09	13,520	3,070,257	4,643.915	232.196	4,876.111
NEPAB	65.74	13,520	888,805	1,344.361	67.218	1,411.579
Outside CA	862.88	13,520	11,666,138	17,645.608	882.280	18,527.889

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Unmitigated - Offsite Program Emissions

Monitoring & Maintenance

Table 4-9: Offsite Overall - Monitoring and Maintenance Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	**# trips**	**Miles**	**CO_2**	**CH_4**	**CO_2**	**CH_4**	**CO_2e**
Worker Commute								
VCAPCD	31.32	144	4,510	3,003	0.12	354.124	0.014	354.138
SCAQMD	8.68	144	1,250	832	0.03	98.142	0.004	98.146
total[1]	40	144	5,760	3,835	0.15	452.266	0.018	452.284
VCAPCD	0.42	144	60	40	0.00	4.749	0.000	4.749
SCAQMD	39.58	144	5,700	3,795	0.15	447.517	0.018	447.535
total[1]	40	144	5,760	3,835	0.15	452.266	0.018	452.284

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 5
Mitigated Emission Factors

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Exhaust Emission Factors

Table 5-1: Emission Factors for Offroad Equipment (Adjusted to Tier 4 Final Compliance)

	Adjusted Emission Factors (g/bhp-hr)								HP	LF	
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4			
Rubber Tired Dozers	0.060	0.260	2.200	0.005	0.008	0.008	509.462	0.154	247	0.40	
Concrete/Industrial Saws	0.060	0.260	3.700	0.006	0.008	0.008	568.300	0.055	81	0.73	
Tractors/Loaders/Backhoes	0.060	0.260	3.700	0.005	0.008	0.008	511.346	0.154	97	0.37	
Graders	0.060	0.260	2.200	0.005	0.008	0.008	511.696	0.154	187	0.41	
Excavators	0.060	0.260	3.700	0.005	0.008	0.008	506.495	0.153	158	0.38	
Scrapers	0.060	0.260	2.200	0.005	0.008	0.008	502.255	0.151	367	0.48	
street sweepers	0.120	2.740	3.700	0.005	0.008	0.008	508.357	0.153	64	0.46	
cranes	0.060	0.260	2.200	0.005	0.008	0.008	507.155	0.153	236	0.29	
impact chisels	Electric/battery powered N/A for emissions										
grapplers	0.060	0.260	3.700	0.005	0.008	0.008	506.324	0.153	168	0.40	* modeled as "Other Material Handling Equipment"
Forklifts	0.060	0.260	3.700	0.005	0.008	0.008	505.583	0.153	89	0.20	

Table 5-2: Emission Factors for Onroad Vehicles (Onsite)

	Emission Factors (g/mile)							
	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4/N_2O
Water Truck	0.229	5.494	8.522	0.016	0.006	0.006	2582.031	129.102
Haul Truck	0.229	5.494	8.522	0.016	0.006	0.006	2582.031	129.102
Onsite Worker Transport	0.056	0.111	1.356	0.003	0.005	0.004	556.107	27.805
	Emission Factors (g/min)							
Haul Truck	0.008	0.258	0.030	0.001	0.000	0.000	95.46	4.773

Onsite Exhaust Emission Factors

Sources:

- Quantity of each equipment type was provided by DTSC based on current onsite operations.
- Emission factors for unmitigated onsite construction equipment taken from Table 3.4 of Appendix D of the CalEEMod user guide (BREEZE software, a Division of Trinity Consultants, 2016). 2016 emission factors were used as a conservative estimate for all years as equipment is not anticipated to be changed out unless it breaks. Therefore even though construction could last for 18 years, there is the potential that the same equipment in use at the beginning of the project would be in use at the end of the project.
- Emissions for water truck and Haul trucks taken from EMFAC 2014 for Ventura County for Heavy Heavy Duty Trucks at 15 mph.
  (See "EMFAC2014 Emission Rates for Haul Trucks", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Emission factors for onsite worker transport trips are from EMFAC2014 for Ventura County for LDA vehicles traveling 15 mph. (See
  (See "EMFAC2014 Emission Rates for Commuter Vehicles", Section 8 of Appendix D of this EIR, for full EMFAC modeling details)
- Horsepower and load factors taken as the average for each equipment type from Table 3.3 of Appendix D of the CalEEMod User's Guide (BREEZE software, a Division of Trinity Consultants, 2016).
- Tier 4 final Emissions are taken from Table 3.5 of Appendix D of the CalEEMod User Guide (BREEZE software, a Division of Trinity Consultants, 2016). Tier 4 is an EPA standard for emissions of offroad vehicle engines.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Onsite Exhaust Emissions

Table 5-3: Mitigated Emissions Per Offroad Vehicle Type per 8 Hour Work Day

	ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4
	(lbs/day) per Excavation Site							
Rubber Tired Dozers	0.105	0.453	3.834	0.009	0.014	0.014	887.739	0.268
Concrete/Industrial Saws	0.063	0.271	3.859	0.006	0.008	0.008	592.656	0.057
Tractors/Loaders/Backhoes	0.038	0.165	2.342	0.003	0.005	0.005	323.672	0.097
Graders	0.081	0.352	2.975	0.007	0.011	0.011	691.918	0.208
Excavators	0.064	0.275	3.918	0.005	0.008	0.008	536.331	0.162
Scrapers	0.186	0.808	6.835	0.016	0.025	0.025	1560.445	0.469
street sweepers	0.062	1.423	1.921	0.003	0.004	0.004	263.951	0.080
cranes	0.072	0.314	2.656	0.006	0.010	0.010	612.164	0.185
impact chisels	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
grapplers	0.071	0.308	4.385	0.006	0.009	0.009	600.088	0.181
Forklifts	0.019	0.082	1.162	0.002	0.003	0.003	158.719	0.048
Water Truck	0.045	1.090	1.691	0.003	0.001	0.001	512.308	25.615

Equations

- Daily emssions = (Emission Factor X Horse power X Load Factor X Quantity X Hours per day) / 453.6
  - 453.6 grams per pound
  - Emission Factor, Horse Power, and Load Factor from Table 1-3.
  - 8 Hour work day (8 hour of equipment usage)
  - Quantity is assumed to be 1 for the purposes of daily emissions in Table 1-5.
- Daily emissions (Water truck) = (Emission Factor X Miles) / 453.6
  - Assumes water trucks at 90 miles per day for onsite operations (15 mph for 6 hrs per day)
- Impact Chisels are electric and therefore do not have quantifiable onsite emissions.

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Offsite Exhaust Emission Factors

Table 5-4: Mitigated Mileage and Emission Factors for Haul Trucks (offsite)

Emission Factors (lbs/mile criteria pollutants; MT/mile GHGs)

		Exhaust								Fugitive	
Haul Truck Emission Factors		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	PM10	PM2.5
	< 55 mph	1.8E-04	0.003	0.002	3.5E-05	1.1E-05	1.0E-05	0.002	8.0E-05	0.007	0.002
	55 mph	5.6E-05	0.001	0.000	3.5E-05	9.0E-06	8.6E-06	0.001	6.7E-05		

Distance (by speed)		Total	<55	55
Boeing	Non-Haz	115	7.3	107.7
	Haz	291	7.3	283.7
	Rad	698	7.3	690.7
DOE	Non-Haz	125	7.3	117.7
	Haz	228	7.3	220.7
	Rad	337	7.3	329.7
NASA	Non-Haz	98	7.3	90.7
	Haz	324	7.3	316.7
	Rad	698	7.3	690.7

Reintrained Road Dust Emission Factors:

$E = k(sL)^{0.91} \times W^{1.02}$

E_{PM10} = k*(0.1)^0.91*497^1.02

= 0.0022 * 0.123 * 26.662

= 0.007 PM10

$E_{PM2.5}$ = 0.00054 * 0.123 * 26.662

= 0.002 PM2.5

E	?	particulate emissions (lbs/VMT)
k	0.0022	PM10 - particle size multiplier (lbs/VMT)
k	0.00054	PM2.5 - particle size multiplier (lbs/VMT)
sL	0.1	road surace silt loading grams per square meter (g/m^2)
w	25	average weight in tons of the vehicles traveling the road (tons)

Table 5-5: Mitigated Weighted Emission Factors and Trucks per day for Initial Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	#/day	#/year	Activity
Boeing	Non-Haz	6.37E-05	0.001	4.31E-04	3.53E-05	9.10E-06	8.71E-06	0.001	6.78E-05			
	Haz	5.88E-05	0.001	3.69E-04	3.53E-05	9.04E-06	8.65E-06	0.001	6.73E-05	3	780	TTF
	Rad	5.69E-05	0.001	3.45E-04	3.53E-05	9.01E-06	8.62E-06	0.001	6.71E-05	0	0	Demolition
DOE	Non-Haz	6.30E-05	0.001	4.23E-04	3.53E-05	9.09E-06	8.70E-06	0.001	6.78E-05			
	Haz	5.97E-05	0.001	3.80E-04	3.53E-05	9.05E-06	8.66E-06	0.001	6.74E-05	55	14,934	Area IV & HWMF
	Rad	5.83E-05	0.001	3.63E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05	26	5,606	Area IV & RMHF
	Rad	5.83E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05	3	780	Demolition
NASA	Non-Haz	6.51E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05	1	260	Liquid O2
	Haz	5.84E-05	0.001	3.65E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05	8	2,080	Liquid O2
	Max	6.51E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05			

Sources
- Trucks per day taken from Table 1-6
- Emission Factors taken from EMFAC2014, maximum emissions from each air district potentially crossed for 55 mph, and weighted average by distance for SCCAB and SCAB for <55MPH.
- Distance assumptions for each waste type provided by DTSC.
- Fugitive road dust taken from USEPA AP42 13.2.2 - Paved Roads

Assumptions
- 453.6 grams per pound
- Weighted average determined by distance and speed for each RP.
- Daily trucks are based on 96 trucks per day.
- Annual truck trips are based on 96 trips per day for 260 days.
- HWMF has 412 trips per year and RMHF has 824 trips per year

Santa Susana Field Laboratory
Initial Clean-up - Mitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Assumes 23 workers per day
- Assumes 2 trips per worker
- Boeing activities have been removed from initial projects.
- [1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) divided by 453.6 (grams per pound) times miles total miles per day plus fugitive lbs per mile (Table 1-1) times number of miles for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive road dust (Table 1-9) times
		=	total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-6
- Number of Haul Trips per daty taken from Table 1-10
- Miles per waste disposal type taken from Table 1-9

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Offsite Exhaust Emission Factors

Table 5-6: Weighted Emission Factors and Trucks per day for Overall Clean-up

Weighted Average Haul Truck Emissions (lbs/mile - criteria pollutants; MT - GHGs)

										Max Truks	
		ROC/VOC	NOx	CO	SO_x	PM10	PM2.5	CO_2	CH_4	/day	/year
Boeing	Non-Haz	6.37E-05	0.001	4.31E-04	3.53E-05	9.10E-06	8.71E-06	0.001	6.78E-05	32	5,579
	Haz	5.88E-05	0.001	3.69E-04	3.53E-05	9.04E-06	8.65E-06	0.001	6.73E-05		1,127
	Rad	5.69E-05	0.001	3.45E-04	3.53E-05	9.01E-06	8.62E-06	0.001	6.71E-05		314
DOE	Non-Haz	6.30E-05	0.001	4.23E-04	3.53E-05	9.09E-06	8.70E-06	0.001	6.78E-05	32	6,241
	Haz	5.97E-05	0.001	3.80E-04	3.53E-05	9.05E-06	8.66E-06	0.001	6.74E-05		273
	Rad	5.83E-05	0.001	3.63E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05		506
NASA	Non-Haz	6.51E-05	0.001	4.49E-04	3.53E-05	9.12E-06	8.72E-06	0.001	6.80E-05	32	1,149
	Haz	5.84E-05	0.001	3.65E-04	3.53E-05	9.03E-06	8.64E-06	0.001	6.73E-05		5,408
	Rad	5.69E-05	0.001	3.45E-04	3.53E-05	9.01E-06	8.62E-06	0.001	6.71E-05		203

Sources - Emission Factors used to determine weighted emissions taken from Table 1-9.

Assumptions
- 453.6 grams per pound
- Weighted average is based on distance and speed.
- Max Trucks per day assumes maximum potential milage based on number of trucks per waste type and length of trip, and 32 trips per day per RP
- Max trucks per year assumes 80 trucks per day (27 for DOE and Boeing, 26 for NASA) and is weighted to take into account the total amount of trucks per waste type (Table 1-11)

Santa Susana Field Laboratory
Overall Site Cleanup - Mitigated

Offsite Emissions

Assumptions

- 40 miles per commute trip, either within VCAPCD or SCAQMD.
- Number of workers per day is taken from Table 1-11. For M&M each RP is assumed to have 3 workers.
- Assumes 2 trips per worker
- Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. Only the maximum for each air district is reported as a worst case scenario. 40 miles per trip was the average trip length assumed for workers.

- For maximum emissions by air basin, the maximum distance that could be traveled through each air basin based on the potential disposal sites is used. Disposal sites are determined based on RP and type of disposal (non-hazardous, hazardous, radiological).
- No haul trucks required for M&M activities.

Equations

-	Commuter Trips	=	Sum of: emission factor in grams per mile (Table 1-1) times 453.6 (grams per pound) times miles total miles per day for each Air District (SCAQMD, VCAPCD).
-	Haul Truck Trips	=	sum of: emission factor in grams per mile (Table 1-9) times 453.6 (grams per pound) times miles total miles per day for each type of disposal location (Non-hazardous, Hazardous, Radiological) plus the emission factors for fugitive
		=	road dust times total miels per day.
-	Total Miles	=	miles per trip times number of trips.
-	tons/year	=	lbs/day multiplied by 260 days divided by 2000 lbs per ton.
-	MT/year	=	lbs/day multiplied by 260 days per year divided by 2004.62 metric tons per pound.

Sources

- Worker Trips and Truck Trips taken from Table 1-11
- Miles for haul truck trips taken from Table 1-9
- Number of haul truck trips taken from Table 1-12

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 6
Mitigated Initial Clean-up Programs

Santa Susana Field Laboratory
Mitigated GHG Emissions Summary

Table 7-1: Sumamry of Overall Cleanup Emissions				
Unmitigated Overall Cleanup GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Overall Cleanup				
Onsite	2,122	28		2,150
Offsite	11,980	521		12,501
Overall Cleanup Per Year	14,102	549		14,651
Monitoring and Maintenance				
Mobile	711	0.028	0.000	711
Energy	450	0.464	1.177	451
Total	1,160	0.492	1.177	1,162
Maximum Project Total[2]				15,813
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 96 trucks per day

[2] Maximum Project Total is the sum of the monitoring and maintenance emissions plus the Overall Sources: Tables 2-5, 7-2 through 7-9. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

Table 6-1: Sumamry of Initial Clean-up Emissions				
Unmitigated Initial Project GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Area IV	9,574	455		10,029
Liquid Oxygen Plant	2,269	90		2,359
Demolition - DOE	1,085	34		1,119
TTF - Boeing	695	16		711
RMHF/HWMF - DOE	1,240	24		1,264
Initial Projects Total	14,863	619		***15,482***
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 73 trucks per day

Sources: Tables 6-2 through 6-12. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

*Note Offsite emissions for the RCRA and Post Closure are included in the other activities for that RP

Santa Susana Field Laboratory

Mitigated - Onsite Initial Clean-up - Emissions

Initial Clean Up Emissions

Table 6-2: Onsite Initial Clean-up Emissions

	(Lbs/day)		(MT/year)		
	CO_2	CH_4	CO_2	CH_4/N_2O	CO_2e
Area IV - DOE					
Exhaust	3,999	26.67	471.625	3.145	474.770
Crew	7	0.33	0.771	0.039	0.810
Haul	NC	NC	0.894	0.045	0.938
Total	4,006	26.99	472.396	3.184	475.580
Liquid Oxygen Plant - NASA					
Exhaust	3,999	26.67	471.625	3.145	474.770
Crew	7	0.33	0.771	0.039	0.810
Haul	NC	NC	0.106	0.005	0.111
Total	4,006	26.99	472.396	3.184	475.580
Demolition - DOE					
Exhaust	2,768	26.28	326.476	3.100	329.575
Crew	15	0.75	1.774	0.089	1.862
Haul	NC	NC	0.035	0.002	0.037
Total	2,783	27.04	328.249	3.188	331.438
TTF - Boeing					
Exhaust	3,232	26.44	381.106	3.118	384.224
Crew	5	0.26	0.617	0.031	0.648
Haul	NC	NC	0.035	0.002	0.037
Total	3,237	26.70	381.723	3.149	384.871
RMHF/HWMF - DOE					
Exhaust	6,463	52.87	762.212	6.235	768.447
Crew	13	0.65	1.542	0.077	1.619
Haul	NC	NC	0.059	0.003	0.062
Total	6,476	53.53	763.754	6.313	770.067

*NC = Not Calculated

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Onsite Initial Clean-up - Emissions
Initial Clean Up Emissions

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-6.
- Daily emssions (crew (onsite worker transport)) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 3-1.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
  - **2** trips/day
- Total Daily Emissions for each GHG is the sume of the daily exhaust, haul truck, and crew emissions.
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623 - Exhaust and Crew
  - Daily Emissions from Table 3-3.
  - 2,204.62 lbs per Metric Ton
  - 260 days per year
- Annual emssions (haul trucks) (MT/year)
  = (Emission Factorexhaust X number of trips X Miles) + (Emission Factoridle * Number of trucks * Minutes) /1,000,000
  - Emission Factors from Table 1-4.
  - Number of Trips from Table 1-6
  - **4** miles/ round trip
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
  - 1,000,000 g/MT

Santa Susana Field Laboratory
Mitigated - Offsite Initial Clean-up Emissions

Demolition Offsite Emissions - DOE

Table 6-3 Offsite Demolition - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	46	1,441	959	0	113.123	0.004	113.127
SCAQMD	8.68	46	399	266	0	31.351	0.001	31.352
total[1]	40	46	1,840	1,225	0	144.474	0.006	144.479
VCAPCD	0.42	46	19	13	0	1.517	0.000	1.517
SCAQMD	39.58	46	1,821	1,212	0	142.957	0.006	142.962
total[1]	40	46	1,840	1,225	0	144.474	0.006	144.479

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 6-4 Offsite Demolition - DOE Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Radiological Disposal Site						
VCAPCD	0.42	1,560	655	0.891	0.045	0.935
SCAQMD	45.78	1,560	71,417	97.074	4.854	101.927
Other CA	242.6	1,560	378,456	514.418	25.721	540.139
Non-CA	48.2	1,560	75,192	102.205	5.110	107.315
Total	288.8	1,560	450,528	612.382	30.619	643.001
Maximum Emissions by Air Basin						
SCCAB	0.42	1,560	655	0.891	0.045	0.935
SCAB	45.78	1,560	71,417	97.074	4.854	101.927
SSAB	0.00	1,560	0	0.000	0.000	0.000
MDAB	198.21	1,560	309,208	420.292	21.015	441.307
SJVAB	0.00	1,560	0	0.000	0.000	0.000
GBVAB	142.64	1,560	222,518	302.459	15.123	317.582
SACVAB	0.00	1,560	0	0.000	0.000	0.000
NEPAB	0.00	1,560	0	0.000	0.000	0.000
Outside CA	670.88	1,560	1,046,573	1,422.559	71.128	1,493.687

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Initial Clean-up Emissions

Area IV Offsite Emissions

Table 6-5 Area IV Offsite - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	20	626	417.05	0.02	49.184	0.002	49.186
SCAQMD	8.68	20	174	115.58	0.00	13.631	0.001	13.631
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817
VCAPCD	0.42	20	8	5.59	0.00	0.660	0.000	0.660
SCAQMD	39.58	20	792	527.03	0.02	62.155	0.002	62.158
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 6-6 Area IV Offsite - DOE Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Radiological Disposal Site						
VCAPCD	0.42	11,211	4,709	6.335	0.317	6.652
SCAQMD	45.78	11,211	513,249	690.534	34.527	725.060
Other CA	242.6	11,211	2,719,837	3,659.315	182.966	3,842.281
Other Non-CA	48.2	11,211	540,380	727.036	36.352	763.388
Total	288.8	11,211	3,237,795	4,356.184	217.809	4,573.993
Hazardous Waste Disposal Site						
VCAPCD	0.42	27,789	11,671	15.734	0.787	16.521
SCAQMD	124.58	27,789	3,461,929	4,667.128	233.356	4,900.485
Other CA	0	27,789	0	0.000	0.000	0.000
Other Non-CA	0	27,789	0	0.000	0.000	0.000
Total	125	27,789	3,473,600	4,682.863	234.143	4,917.006
Maximum Emissions by Air Basin						
SCCAB	0.42	39,000	16,380	22.082	1.104	23.186
SCAB	124.58	39,000	4,858,620	6,550.049	327.502	6,877.552
SSAB	103	39,000	4,017,000	5,415.436	270.772	5,686.208
MDAB	198.21	39,000	7,730,190	10,421.297	521.065	10,942.362
SJVAB	57	39,000	2,223,000	2,996.892	149.845	3,146.737
GBVAB	142.64	39,000	5,562,960	7,499.591	374.980	7,874.570
SACVAB	0	39,000	0	0.000	0.000	0.000
NEPAB	0	39,000	0	0.000	0.000	0.000
Outside CA	670.88	39,000	26,164,320	35,272.893	1,763.645	37,036.537

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Initial Clean-up Emissions

Liquid Oxygen Plant Offsite Emissions

Table 6-7 Liquid Oxygen Plant Offsite - NASA Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	20	626	417.05	0.02	49.184	0.002	49.186
SCAQMD	8.68	20	174	115.58	0.00	13.631	0.001	13.631
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817
VCAPCD	0.42	20	8	5.59	0.00	0.660	0.000	0.660
SCAQMD	39.58	20	792	527.03	0.02	62.155	0.002	62.158
total[1]	40	20	800	532.63	0.02	62.815	0.002	62.817

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 6-8 Liquid Oxygen Plant Offsite - NASA Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Non-hazardous Waste Disposal Site						
VCAPCD	10.29	520	5,351	7.273	0.364	7.637
SCAQMD	53.58	520	27,862	37.871	1.894	39.765
Other CA	34.13	520	17,748	24.124	1.206	25.330
Other Non-CA	0	520	0	0.000	0.000	0.000
Total	98	520	50,960	69.268	3.463	72.731
Hazardous Waste Disposal Site						
VCAPCD	0.42	4,160	1,747	2.351	0.118	2.469
SCAQMD	124.58	4,160	518,253	697.384	34.869	732.253
Other CA	172.39	4,160	717,142	965.019	48.251	1,013.270
Other Non-CA	26.61	4,160	110,698	148.960	7.448	156.408
Total	297.39	4,160	1,237,142	1,664.754	83.238	1,747.992
Maximum Emissions by Air Basin						
SCCAB	0.42	4,680	1,966	2.672	0.134	2.805
SCAB	124.58	4,680	583,034	792.492	39.625	832.117
SSAB	48.4	4,680	226,512	307.888	15.394	323.282
MDAB	123.99	4,680	580,273	788.739	39.437	828.176
SJVAB	0	4,680	0	0.000	0.000	0.000
GBVAB	131.4	4,680	614,952	835.876	41.794	877.670
SACVAB	0	4,680	0	0.000	0.000	0.000
NEPAB	0	4,680	0	0.000	0.000	0.000
Outside CA	26.61	4,680	124,535	169.275	8.464	177.738

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Initial Clean-up Emissions

TTF Offsite -Boeing

Table 6-9 TTF Offsite - Boeing Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	16	501	333.64	0.01	39.347	0.002	39.349
SCAQMD	8.68	16	139	92.46	0.00	10.905	0.000	10.905
total[1]	40	16	640	426.10	0.02	50.252	0.002	50.254
VCAPCD	0.42	16	7	4.47	0.00	0.528	0.000	0.528
SCAQMD	39.58	16	633	421.63	0.02	49.724	0.002	49.726
total[1]	40	16	640	426.10	0.02	50.252	0.002	50.254

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Table 6-10 TTF Offsite - Boeing Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Hazardous Waste Disposal Site						
VCAPCD	0.42	1,560	655	0.882	0.044	0.926
SCAQMD	124.58	1,560	194,345	261.649	13.082	274.732
Other CA	0	1,560	0	0.000	0.000	0.000
Other Non-CA	0	1,560	0	0.000	0.000	0.000
Total	125	1,560	195,000	262.531	13.127	275.658
Radiological Disposal Site						
VCAPCD	0.42	0	0	0.000	0.000	0.000
SCAQMD	45.78	0	0	0.000	0.000	0.000
Other CA	242.6	0	0	0.000	0.000	0.000
Other Non-CA	48.2	0	0	0.000	0.000	0.000
Total	288.8	0	0	0.000	0.000	0.000
Maximum Emissions by Air Basin						
SCCAB	0.42	1,560	655	0.882	0.044	0.926
SCAB	92.52	1,560	144,331	194.315	9.716	204.031
SSAB	0.00	1,560	0	0.000	0.000	0.000
MDAB	198.21	1,560	309,208	416.290	20.815	437.105
SJVAB	297.36	1,560	463,882	624.530	31.227	655.757
GBVAB	156.57	1,560	244,249	328.836	16.442	345.278
SACVAB	227.09	1,560	354,260	476.946	23.847	500.793
NEPAB	65.74	1,560	102,554	138.070	6.904	144.974
Outside CA	862.88	1,560	1,346,093	1,812.263	90.613	1,902.877

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Initial Clean-up Emissions

RMHF/HWMF - DOE

Table 6-11 RMHF/HWMF - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	40	1,253	834.09	0.03	98.37	0.00	98.37
SCAQMD	8.68	40	347	231.16	0.01	27.26	0.00	27.26
total[1]	40	40	1,600	1065.25	0.04	125.63	0.00	125.63
VCAPCD	0.42	40	17	11.19	0.00	1.32	0.00	1.32
SCAQMD	39.58	40	1,583	1054.07	0.04	124.31	0.00	124.32
total[1]	40	40	1,600	1065.25	0.04	125.63	0.00	125.63

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

RMHF/HWMF - DOE

Table 6-12 RMHF/HWMF - DOE Haul Emissions

				MT/Year		
	Miles/trip	Trips	Miles	CO_2	CH_4	CO_2e
Hazardous Waste Disposal Site						
VCAPCD	0.42	2,080	874	1.178	0.059	1.237
SCAQMD	124.58	2,080	259,126	349.336	17.467	366.803
Other CA	0	2,080	0	0.000	0.000	0.000
Other Non-CA	0	2,080	0	0.000	0.000	0.000
Total	125	2,080	260,000	350.514	17.526	368.039
Radiological Disposal Site						
VCAPCD	0.42	0	0	0.000	0.000	0.000
SCAQMD	45.78	0	0	0.000	0.000	0.000
Other CA	242.6	0	0	0.000	0.000	0.000
Other Non-CA	48.2	0	0	0.000	0.000	0.000
Total	288.8	0	0	0.000	0.000	0.000
Maximum Emissions by Air Basin						
SCCAB	0.42	2,080	874	1.178	0.059	1.237
SCAB	124.58	2,080	259,126	349.336	17.467	366.803
SSAB	103.00	2,080	214,240	288.823	14.441	303.264
MDAB	198.21	2,080	412,277	555.803	27.790	583.593
SJVAB	57.00	2,080	118,560	159.834	7.992	167.826
GBVAB	142.64	2,080	296,691	399.978	19.999	419.977
SACVAB	0.00	2,080	0	0.000	0.000	0.000
NEPAB	0.00	2,080	0	0.000	0.000	0.000
Outside CA	670.88	2,080	1,395,430	1,881.221	94.061	1,975.282

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Greenhouse Gas Appendix
Section 7
Mitigated Overall Cleanup Emissions

Santa Susana Field Laboratory
Mitigated GHG Emissions Summary

Table 7-1: Sumamry of Overall Cleanup Emissions				
Unmitigated Overall Cleanup GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Overall Cleanup				
Onsite	2,122	28		2,150
Offsite	11,980	521		12,501
Overall Cleanup Per Year	14,102	549		14,651
Monitoring and Maintenance				
Mobile	711	0.028	0.000	711
Energy	450	0.464	1.177	451
Total	1,160	0.492	1.177	1,162
Maximum Project Total[2]				15,813
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 96 trucks per day

[2] Maximum Project Total is the sum of the monitoring and maintenance emissions plus the Overall Sources: Tables 2-5, 7-2 through 7-9. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

Table 6-1: Sumamry of Initial Clean-up Emissions				
Unmitigated Initial Project GHG Emissions MT/yr[1]				
	CO_2	CH_4	N_2O	CO_2e
Area IV	9,574	455		10,029
Liquid Oxygen Plant	2,269	90		2,359
Demolition - DOE	1,085	34		1,119
TTF - Boeing	695	16		711
RMHF/HWMF - DOE	1,240	24		1,264
Initial Projects Total	14,863	619		***15,482***
Threshold (2020)				10,000
Exceeds Threshold				**Yes**

*Totals may not add exactly due to rounding.

[1] Assumes 73 trucks per day

Sources: Tables 6-2 through 6-12. Sum of Onsite emissions plus offsite commuter and haul emissions for all activities.

*Note Offsite emissions for the RCRA and Post Closure are included in the other activities for that RP

Santa Susana Field Laboratory
Mitigated - Onsite Overall Cleanup Emissions

Overall Cleanup Emissions

Table 7-2: Onsite Overall Cleanup Emissions

	(Lbs/day)		(MT/year)		
	CO_2	CH_4	CO_2	CH_4/N_2O	CO_2e
Boeing					
Exhaust	7,483	79	882.517	9.274	891.791
Haul Trucks	N/C	N/C	82.555	4.128	86.683
Crew	49.04	2.45	5.783	0.289	6.073
Total	7,532	81	970.855	13.691	984.546
DOE					
Exhaust	4,172	27	492.025	3.151	495.176
Haul Trucks	N/C	N/C	82.555	4.128	86.683
Crew	19.62	0.98	2.313	0.116	2.429
Total	4,192	28	576.894	7.395	584.288
NASA					
Exhaust	4,172	27	492.025	3.151	495.176
Haul Trucks	N/C	N/C	79.498	3.975	83.473
Crew	19.62	0.98	2.313	0.116	2.429
Total	4,192	28	573.836	7.242	581.078

*Totals may not add exactly due to rounding.

Equations

- Daily emssions (Exhaust) (lbs/day) = sum of daily emissions for each piece of equipment.
- Emissions from each equipment type = Number of pieces of equipment times the emissions per day for that piece of equipment.
  - Emissions per day per equipment type from Table 1-5.
  - Number of Pieces of Equipment per activty from Table 1-11.
- Daily emssions (crew (onsite worker transport)) (lbs/day) = ((Number of Employees/15) times Emission Factor times 4) / 453.6
  - Number of employees per phase taken from Table 1-11.
  - **15** workers/onsite van
  - Emission Factor taken from Table 1-5
  - **4** miles/ round trip
  - 453.6 grams per pound
- Total Daily Emissions (lbs/day) for each criteria pollutant is the sum of the daily exhaust, haul truck, and crew emissions.
- Annual emssions (MT/year) = (Daily Emissions * Number of Days)/2204.623 - For Exhaust and Crew emissions
  - Daily Emissions from Table 4-6.
  - 2,204.62 lbs per Metric Ton
  - 260 days per year
- Annual emssions (haul trucks) (MT/year)
  = (Emission Factorexhaust X number of trips X Miles) + (Emission Factoridle * Number of trucks * Minutes) /1,000,000
  - 20,800 trucks per year per year for the site (See Table 1-11).
  - **15** minutes idling per truck (- assumes idling entering the site, at the loading location, and leaving the site)
  - 1,000,000.00 g/metric ton
  - 260 days per year
  - Emission Factors from Table 1-4.
  - **4** miles/ round trip

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

Boeing

Table 7-3: Offsite Overall - Boeing Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	300	9,396	6,256	0.25	737.758	0.029	737.787
SCAQMD	8.68	300	2,604	1,734	0.07	204.462	0.008	204.470
total[1]	40	300	12,000	7,989	0.32	942.220	0.037	942.257
VCAPCD	0.42	300	126	84	0.00	9.893	0.000	9.894
SCAQMD	39.58	300	11,874	7,905	0.31	932.327	0.037	932.364
total[1]	40	300	12,000	7,989	0.32	942.220	0.037	942.257

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

Table 7-4: Offsite Overall - Boeing Haul Emissions

				MT/Year		
	Miles/trip	**Trips**	**Miles**	**CO_2**	**CH_4**	**CO_2e**
Non-Hazardous						
VCAPCD	10.29	11,158	114,813	155.729	7.786	163.515
SCAQMD	67.58	11,158	754,037	1,022.754	51.138	1,073.892
Other CA	37.13	11,158	414,285	561.924	28.096	590.021
Non-CA	0	11,158	0	0.000	0.000	0.000
total1	115	11,158	1,283,136	1,740.407	87.020	1,827.428
Hazardous						
VCAPCD	0.42	2,255	947	1.275	0.064	1.339
SCAQMD	124.58	2,255	280,878	378.150	18.907	397.057
Other CA	166	2,255	374,263	503.876	25.194	529.070
Non-CA	0	2,255	0	0.000	0.000	0.000
total1	291	2,255	656,088	883.301	44.165	927.466
Radiological Soil						
VCAPCD	0.42	628	264	0.354	0.018	0.372
SCAQMD	92.52	628	58,075	77.964	3.898	81.863
Other CA	162.93	628	102,271	137.297	6.865	144.162
Non-CA	442.13	628	277,525	372.573	18.629	391.201
total1	698	628	160,610	215.616	10.781	226.397
Total Emissions						
VCAPCD			116,023	157.357	7.868	165.225
SCAQMD			1,092,990	1,478.868	73.943	1,552.812
Other CA			890,820	1,203.098	60.155	1,263.253
Non-CA			277,525	372.573	18.629	391.201
total1			2,099,834	2,839.324	141.966	2,981.290
Maximum Emissions By Air Basin						
SCCAB	10.29	14,040	144,472	195.957	9.798	205.755
SCAB	124.58	14,040	1,749,103	2,372.432	118.622	2,491.053
SSAB	48.40	14,040	679,536	921.703	46.085	967.788
MDAB	198.21	14,040	2,782,868	3,774.600	188.730	3,963.330
SJVAB	297.36	14,040	4,174,934	5,662.758	283.138	5,945.895
GBVAB	156.57	14,040	2,198,243	2,981.632	149.082	3,130.713
SACVAB	227.09	14,040	3,188,344	4,324.575	216.229	4,540.804
NEPAB	65.74	14,040	922,990	1,251.916	62.596	1,314.512
Outside CA	1495.00	14,040	20,989,800	28,469.944	1,423.497	29,893.441

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

DOE

Table 7-5: Offsite Overall - DOE Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	**# trips**	**Miles**	**CO_2**	**CH_4**	**CO_2**	**CH_4**	**CO_2e**
Worker Commute								
VCAPCD	31.32	100	3,132	2,085	0.08	245.919	0.010	245.929
SCAQMD	8.68	100	868	578	0.02	68.154	0.003	68.157
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086
VCAPCD	0.42	100	42	28	0.00	3.298	0.000	3.298
SCAQMD	39.58	100	3,958	2,635	0.10	310.776	0.012	310.788
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

DOE

Table 7-6: Offsite Overall - DOE Haul Emissions

				MT/year		
	Miles/trip	**Trips**	**Miles**	**CO_2**	**CH_4**	**CO_2e**
Non-Hazardous						
VCAPCD	0.42	12,483	5,243	7.104	0.355	7.459
SCAQMD	67.58	12,483	843,578	1,143.081	57.154	1,200.236
Other CA	57	12,483	711,511	964.126	48.206	1,012.332
Non-CA	0	12,483	0	0.000	0.000	0.000
total1	125	12,483	1,560,331	2,114.312	105.716	2,220.027
Hazardous						
VCAPCD	0.42	545	229	0.309	0.015	0.324
SCAQMD	124.58	545	67,926	91.574	4.579	96.152
Other CA	103	545	56,160	75.711	3.786	79.497
Non-CA	0	545	0	0.000	0.000	0.000
total1	228	545	124,315	167.593	8.380	175.973
Radiological Soil						
VCAPCD	0.42	1,012	425	0.572	0.029	0.601
SCAQMD	45.78	1,012	46,334	62.339	3.117	65.456
Other CA	242.6	1,012	245,537	330.350	16.517	346.867
Non-CA	48.2	1,012	48,784	65.634	3.282	68.916
total1	337	1,012	292,296	393.261	19.663	412.924
Total Emissions						
VCAPCD			5,897	7.985	0.399	8.384
SCAQMD			957,838	1,296.994	64.850	1,361.844
Other CA			1,013,208	1,370.187	68.509	1,438.696
Non-CA			48,784	65.634	3.282	68.916
total1			2,025,727	2,675.165	133.758	2,808.924
Maximum Emissions By Air Basin						
SCCAB	17.84	14,040	250,474	339.402	16.970	356.372
SCAB	124.58	14,040	1,749,103	2,370.105	118.505	2,488.610
SSAB	138.00	14,040	1,937,520	2,625.418	131.271	2,756.688
MDAB	198.21	14,040	2,782,868	3,770.899	188.545	3,959.444
SJVAB	71.00	14,040	996,840	1,350.758	67.538	1,418.296
GBVAB	142.64	14,040	2,002,666	2,713.692	135.685	2,849.377
SACVAB	0.00	14,040	0	0.000	0.000	0.000
NEPAB	0.00	14,040	0	0.000	0.000	0.000
Outside CA	670.88	14,040	9,419,155	12,763.334	638.167	13,401.501

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

NASA

Table 7-7: Offsite Overall - NASA Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	**# trips**	**Miles**	**CO_2**	**CH_4**	**CO_2**	**CH_4**	**CO_2e**
Worker Commute								
VCAPCD	31.32	100	3,132	2,085	0.08	245.919	0.010	245.929
SCAQMD	8.68	100	868	578	0.02	68.154	0.003	68.157
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086
VCAPCD	0.42	100	42	28	0.00	3.298	0.000	3.298
SCAQMD	39.58	100	3,958	2,635	0.10	310.776	0.012	310.788
total[1]	40	100	4,000	2,663	0.11	314.073	0.012	314.086

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

NASA

Table 7-8: Offsite Overall - NASA Haul Emissions

				MT/year		
	Miles/trip	**Trips**	**Miles**	**CO_2**	**CH_4**	**CO_2e**
Non-Hazardous						
VCAPCD	10.29	2,299	23,657	32.155	1.608	33.763
SCAQMD	53.58	2,299	123,180	167.433	8.372	175.805
Other CA	34.13	2,299	78,465	106.654	5.333	111.986
Non-CA	0	2,299	0	0.000	0.000	0.000
total1	98	2,299	225,302	306.242	15.312	321.554
Hazardous						
VCAPCD	0.42	10,816	4,543	6.175	0.309	6.483
SCAQMD	124.58	10,816	1,347,457	1,831.538	91.577	1,923.115
Other CA	172.39	10,816	1,864,570	2,534.426	126.721	2,661.147
Non-CA	26.61	10,816	287,814	391.212	19.561	410.773
total1	324	10,816	3,216,570	4,372.139	218.607	4,590.745
Radiological Soil						
VCAPCD	0.42	405	170	0.229	0.011	0.240
SCAQMD	92.52	405	37,471	50.423	2.521	52.944
Other CA	305.57	405	123,757	166.533	8.327	174.860
Non-CA	299.49	405	121,295	163.220	8.161	171.381
total1	698	405	161,398	217.185	10.859	228.044
Total Emissions						
VCAPCD			28,369	38.559	1.928	40.487
SCAQMD			1,508,108	2,049.394	102.470	2,151.863
Other CA			2,066,792	2,807.613	140.381	2,947.993
Non-CA			409,109	554.432	27.722	582.153
total1			3,603,270	4,895.566	244.778	5,140.344
Maximum Emissions By Air Basin						
SCCAB	0.42	13,520	5,678	7.718	0.386	8.104
SCAB	124.58	13,520	1,684,322	2,289.422	114.471	2,403.893
SSAB	48.40	13,520	654,368	889.453	44.473	933.925
MDAB	198.21	13,520	2,679,799	3,642.530	182.126	3,824.656
SJVAB	297.36	13,520	4,020,307	5,464.622	273.231	5,737.853
GBVAB	156.57	13,520	2,116,826	2,877.306	143.865	3,021.172
SACVAB	227.09	13,520	3,070,257	4,173.261	208.663	4,381.924
NEPAB	65.74	13,520	888,805	1,208.112	60.406	1,268.518
Outside CA	862.88	13,520	11,666,138	15,857.254	792.863	16,650.116

*Totals may not add exactly due to rounding.

Santa Susana Field Laboratory
Mitigated - Offsite Program Emissions

Monitoring & Maintenance

Table 7-9: Offsite Overall - Monitoring and Maintenance Commuter Emissions

				lbs/day		MT/year		
	Miles/trip	# trips	Miles	CO_2	CH_4	CO_2	CH_4	CO_2e
Worker Commute								
VCAPCD	31.32	144	4,510	3,003	0.12	354.124	0.014	354.138
SCAQMD	8.68	144	1,250	832	0.03	98.142	0.004	98.146
total[1]	40	144	5,760	3,835	0.15	452.266	0.018	452.284
VCAPCD	0.42	144	60	40	0.00	4.749	0.000	4.749
SCAQMD	39.58	144	5,700	3,795	0.15	447.517	0.018	447.535
total[1]	40	144	5,760	3,835	0.15	452.266	0.018	452.284

*Totals may not add exactly due to rounding.

[1] Because it is unknown how many workers come from the SCAQMD jurisdiction and how many would come from the VCAPCD jurisdiction, assumptions on travel to the site based on potential maximum distance within each jurisdiction based on site location. 40 miles per trip was the average trip length assumed for workers. The table takes the potential routes to the site into account and proveds two scenarios, the maximum within the VCAPCD and the maximum within the SCAQMD. Only the maximum for each air district is reported as a worst case scenario.

Appendix F
Health Risk Modeling

ESA

Santa Susana Field Laboratory Project
Health Risk Assessment
Appendix F

F.1 HARP Inputs - Unitigated
F.2 HARP Inputs - Mitigated
F.3 Soil Vapor Extraction Emissions
F.4 AERMOD Inputs

F.1 HARP Inputs - Unitigated

HARP2 - HRACalc (dated 17023) 7/13/2017 12:29:48 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 1
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_INITIAL\hra\UM_I_CancerCancerRisk.csv
Cancer risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_INITIAL\hra\UM_I_CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/13/2017 12:08:51 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 12

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 10
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_PROGRAM\hra\UM_P_CancerCancerRisk.csv
Cancer risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_PROGRAM\hra\UM_P_CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/13/2017 12:32:15 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_INITIAL\hra\UM_I_CHINCChronicRisk.csv
Chronic risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_INITIAL\hra\UM_I_CHINCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/13/2017 12:12:09 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_PROGRAM\hra\UM_P_CHINCChronicRisk.csv
Chronic risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_PROGRAM\hra\UM_P_CHINCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/13/2017 12:33:44 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_INITIAL\hra\UM_I_AHINCAcuteRisk.csv
Acute risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_INITIAL\hra\UM_I_AHINCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/13/2017 12:14:08 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_PROGRAM\hra\UM_P_AHINCAcuteRisk.csv
Acute risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_UM_PROGRAM\hra\UM_P_AHINCAcuteRiskSumByRec.csv
HRA ran successfully

Santa Susana Field Laboratory

Emissions Summary for HRA

Step 1 - Summarize Emissions Into One Table

	Emissions (lbs/day)			
Source	Initial	Program	Source Type	Pollutant
ASBSR1	1.3	2.6	Fugitive Dust	PM10
ASBSR2	1.5	3.1	Fugitive Dust	PM10
ASBSR3	0.3	0.5	Fugitive Dust	PM10
ASBSR4	0.5	1.0	Fugitive Dust	PM10
ASBSR5	0.7	1.4	Fugitive Dust	PM10
ASBBP1	0.4	0.8	Fugitive Dust	PM10
ASBBP2	0.1	0.2	Fugitive Dust	PM10
ASBBP3	0.2	0.3	Fugitive Dust	PM10
ASDSR1	13.1	6.1	Fugitive Dust	PM10
ASDSR2	0.2	0.1	Fugitive Dust	PM10
ASNSR1	3.0	3.1	Fugitive Dust	PM10
ASNSR2	2.6	2.7	Fugitive Dust	PM10
ASNSR3	0.4	0.4	Fugitive Dust	PM10
LSBCV1	0.3	0.7	Equipment (Diesel)	DPM
LSBCV2	0.3	0.7	Equipment (Diesel)	DPM
LSBCV3	0.1	0.2	Equipment (Diesel)	DPM
LSBCV4	0.1	0.2	Equipment (Diesel)	DPM
LSBCV5	0.1	0.3	Equipment (Diesel)	DPM
LSBBP1	0.1	0.2	Equipment (Diesel)	DPM
LSBBP2	0.02	0.05	Equipment (Diesel)	DPM
LSBBP3	0.03	0.1	Equipment (Diesel)	DPM
LSDVC1	3.7	1.2	Equipment (Diesel)	DPM
LSDVC2	0.1	0.0	Equipment (Diesel)	DPM
LSNVC1	0.6	0.6	Equipment (Diesel)	DPM
LSNVC2	0.5	0.5	Equipment (Diesel)	DPM
LSNVC3	0.1	0.1	Equipment (Diesel)	DPM
LSOHR1	1.1E-03	0.01	On-site Haul Route (Diesel)	DPM
LSOHR2	7.7E-04	0.01	On-site Haul Route (Diesel)	DPM
LSOHR3	3.3E-04	3.5E-03	On-site Haul Route (Diesel)	DPM
LSOHR1	0.03	0.01	On-site Haul Route (Diesel)	DPM
LSOHR2	0	0	On-site Haul Route (Diesel)	DPM
LSOHR3	0.03	0.01	On-site Haul Route (Diesel)	DPM
LSOHR1	2.5E-03	0.01	On-site Haul Route (Diesel)	DPM

Step 2 - Sum emissions by source

	lbs/day		
Source	Initial	Program	Pollutant
ASBSR1	1.3	2.6	PM10
ASBSR2	1.5	3.1	PM10
ASBSR3	0.3	0.5	PM10
ASBSR4	0.5	1.0	PM10
ASBSR5	0.7	1.4	PM10
ASBBP1	0.4	0.8	PM10
ASBBP2	0.1	0.2	PM10
ASBBP3	0.2	0.3	PM10
ASDSR1	13.1	6.1	PM10
ASDSR2	0.2	0.1	PM10
ASNSR1	3.0	3.1	PM10
ASNSR2	2.6	2.7	PM10
ASNSR3	0.4	0.4	PM10
LSOHR1	188.5	168.4	PM10
LSOHR2	16.2	85.6	PM10
LSOHR3	149.7	100.4	PM10
LSBCV1	0.3	0.7	DPM
LSBCV2	0.3	0.7	DPM
LSBCV3	0.1	0.2	DPM
LSBCV4	0.1	0.2	DPM
LSBCV5	0.1	0.3	DPM
LSBBP1	0.1	0.2	DPM
LSBBP2	0.02	0.05	DPM
LSBBP3	0.03	0.1	DPM
LSDVC1	3.7	1.2	DPM
LSDVC2	0.1	0.0	DPM
LSNVC1	0.6	0.6	DPM
LSNVC2	0.5	0.5	DPM
LSNVC3	0.1	0.1	DPM
LSOHR1	0.04	0.03	DPM
LSOHR2	0.003	0.02	DPM
LSOHR3	0.03	0.02	DPM
SLINE3	0.02	0.02	DPM

Step 3 - Calculate Annual Emissions

	lbs/year		
Source	Initial	Program	Pollutant
ASBSR1	331	685	PM10
ASBSR2	391	810	PM10
ASBSR3	67	139	PM10
ASBSR4	120	249	PM10
ASBSR5	174	360	PM10
ASBBP1	99	205	PM10
ASBBP2	20	41	PM10
ASBBP3	41	85	PM10
ASDSR1	3404	1583	PM10
ASDSR2	40	18	PM10
ASNSR1	778	809	PM10
ASNSR2	670	697	PM10
ASNSR3	92	96	PM10
LSOHR1	49023	43776	PM10
LSOHR2	4201	22268	PM10
LSOHR3	38934	26113	PM10
LSBCV1	68	189	DPM
LSBCV2	67	187	DPM
LSBCV3	15	42	DPM
LSBCV4	20	56	DPM
LSBCV5	27	75	DPM
LSBBP1	23	63	DPM
LSBBP2	5	13	DPM
LSBBP3	8	23	DPM
LSDVC1	967	319	DPM
LSDVC2	16	5	DPM
LSNVC1	143	161	DPM
LSNVC2	126	141	DPM
LSNVC3	20	22	DPM
LSOHR1	10	9	DPM
LSOHR2	1	4	DPM
LSOHR3	8	5	DPM
SLINE3	4	4	DPM

	Emissions (lbs/day)					lbs/day				lbs/year			
Source	**Initial**	**Program**	**Source Type**	**Pollutant**	**Source**	**Initial**	**Program**	**Pollutant**	**Source**	**Initial**	**Program**	**Pollutant**
LSOHR2	2.4E-03	0.01	On-site Haul Route (Diesel)	DPM	SLINE4	0.03	0.03	DPM	SLINE4	7	7	DPM
LSOHR3	1.6E-03	0.01	On-site Haul Route (Diesel)	DPM	SLINE6	0.03	0.03	DPM	SLINE6	7	7	DPM
LSOHR1	5	58	On-site Haul Route (Dust)	PM10	SLINE7	0.03	0.03	DPM	SLINE7	8	8	DPM
LSOHR2	4	42	On-site Haul Route (Dust)	PM10	SLINE8	0.02	0.02	DPM	SLINE8	5	5	DPM
LSOHR3	2	18	On-site Haul Route (Dust)	PM10	SLINE9	0.04	0.04	DPM	SLINE9	10	10	DPM
LSOHR1	170	65	On-site Haul Route (Dust)	PM10	SLINE10	0.1	0.1	DPM	SLINE10	18	18	DPM
LSOHR2	0	0	On-site Haul Route (Dust)	PM10	SLINE12	0.01	0.01	DPM	SLINE12	2	2	DPM
LSOHR3	140	53	On-site Haul Route (Dust)	PM10	SLINE13	0.02	0.02	DPM	SLINE13	5	5	DPM
LSOHR1	13	46	On-site Haul Route (Dust)	PM10	SLINE14	0.02	0.02	DPM	SLINE14	5	5	DPM
LSOHR2	12	43	On-site Haul Route (Dust)	PM10	SLINE15	0.1	0.1	DPM	SLINE15	17	17	DPM
LSOHR3	8	29	On-site Haul Route (Dust)	PM10								
SLINE3	0	0	Haul Roads (Diesel)	DPM								
SLINE4	2.1E-02	2.1E-02	Haul Roads (Diesel)	DPM								
SLINE6	2.8E-02	2.8E-02	Haul Roads (Diesel)	DPM								
SLINE7	3.0E-02	3.0E-02	Haul Roads (Diesel)	DPM								
SLINE8	1.8E-02	1.8E-02	Haul Roads (Diesel)	DPM								
SLINE9	0	0	Haul Roads (Diesel)	DPM								
SLINE10	0	0	Haul Roads (Diesel)	DPM								
SLINE12	0	0	Haul Roads (Diesel)	DPM								
SLINE13	0	0	Haul Roads (Diesel)	DPM								
SLINE14	0	0	Haul Roads (Diesel)	DPM								
SLINE15	5.7E-02	5.7E-02	Haul Roads (Diesel)	DPM								
SLINE3	1.7E-02	1.7E-02	Haul Roads (Diesel)	DPM								
SLINE4	2.5E-02	2.5E-02	Haul Roads (Diesel)	DPM								
SLINE6	0	0	Haul Roads (Diesel)	DPM								
SLINE7	0	0	Haul Roads (Diesel)	DPM								
SLINE8	0	0	Haul Roads (Diesel)	DPM								
SLINE9	0	0	Haul Roads (Diesel)	DPM								
SLINE10	0	0	Haul Roads (Diesel)	DPM								
SLINE12	6.6E-03	6.6E-03	Haul Roads (Diesel)	DPM								
SLINE13	1.9E-02	1.9E-02	Haul Roads (Diesel)	DPM								
SLINE14	2.0E-02	2.0E-02	Haul Roads (Diesel)	DPM								
SLINE15	6.7E-02	6.7E-02	Haul Roads (Diesel)	DPM								
SLINE3	0	0	Haul Roads (Diesel)	DPM								
SLINE4	0	0	Haul Roads (Diesel)	DPM								
SLINE6	2.8E-02	2.8E-02	Haul Roads (Diesel)	DPM								

Emissions (lbs/day)					lbs/day				lbs/year			
Source	**Initial**	**Program**	**Source Type**	**Pollutant**	**Source**	**Initial**	**Program**	**Pollutant**	**Source**	**Initial**	**Program**	**Pollutant**
SLINE7	0	0	Haul Roads (Diesel)	DPM								
SLINE8	0	0	Haul Roads (Diesel)	DPM								
SLINE9	0	0	Haul Roads (Diesel)	DPM								
SLINE10	6.9E-02	6.9E-02	Haul Roads (Diesel)	DPM								
SLINE12	0	0	Haul Roads (Diesel)	DPM								
SLINE13	0	0	Haul Roads (Diesel)	DPM								
SLINE14	0	0	Haul Roads (Diesel)	DPM								
SLINE15	5.7E-02	5.7E-02	Haul Roads (Diesel)	DPM								
SLINE3	0	0	Haul Roads (Diesel)	DPM								
SLINE4	0	0	Haul Roads (Diesel)	DPM								
SLINE6	2.9E-02	2.9E-02	Haul Roads (Diesel)	DPM								
SLINE7	3.0E-02	3.0E-02	Haul Roads (Diesel)	DPM								
SLINE8	0	0	Haul Roads (Diesel)	DPM								
SLINE9	3.7E-02	3.7E-02	Haul Roads (Diesel)	DPM								
SLINE10	0	0	Haul Roads (Diesel)	DPM								
SLINE12	0	0	Haul Roads (Diesel)	DPM								
SLINE13	0	0	Haul Roads (Diesel)	DPM								
SLINE14	0	0	Haul Roads (Diesel)	DPM								
SLINE15	0.1	0.1	Haul Roads (Diesel)	DPM								

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Step 4 - Assign lookup values for chemicals in HARP Database

		Site Soil Concentration of Chemicals (milligrams per kilogram) in Sub-areas								
Constituent	**Alt Name**	**3**	**5A**	**5B**	**5C**	**5D**	**6**	**7**	**8**	**NBZ**
Antimony		1.60E-01	2.60E-01	1.50E-01	3.20E-01	4.60E-01	2.00E-01	8.6	7.80E-01	3.10E-01
Cadmium		3.80E-01	3.80E-01	2.60E-01	2.80E-01	3.60E-01	3.80E-01	2.90E-01	3.30E-01	2.40E-01
Chromium, hexavalent	Chromium, hexavalent (& compounds)	--	6.10E-01	5.30E-01	7.10E-01	6.70E-01	6.60E-01	7.60E-01	5.50E-01	8.40E-01
Lead		1.50E+01	1.70E+01	9.7	1.20E+01	1.20E+01	2.00E+01	1.80E+02	3.30E+01	1.10E+01
Mercury		4.00E-02	6.20E-02	7.10E-02	8.70E-02	4.20E-01	1.90E-01	3.60E-02	5.50E-02	8.30E-01
Selenium		3.20E-01	1.60E-01	4.90E-01	1.60E-01	1.80E-01	3.00E-01	1.60E-01	2.10E-01	3.40E-01
Silver		3.80E-01	3.40E-01	4.20E-01	1.70E-01	8.10E-02	4.60E-01	8.00E-02	5.20E-02	1.60E-01
Zinc		7.70E+01	8.10E+01	7.50E+01	7.90E+01	8.00E+01	8.20E+01	1.00E+02	7.10E+01	6.20E+01
1-Methylnaphthalene		2.70E-03	7.10E-01	1.40E-02	6.80E-03	2.70E-03	2.40E-03	4.10E-02	1.80E-03	2.20E-03
2-Methylnaphthalene	2-Methyl naphthalene	6.50E-03	6.70E-01	1.30E-02	7.40E-03	2.40E-03	3.00E-03	3.30E-02	2.70E-03	2.40E-03
Acenaphthene		9.30E-04	1.10E-01	1.00E-02	1.90E-02	2.60E-02	9.60E-03	1.80E-01	4.20E-03	4.10E-03
Anthracene		3.10E-03	1.90E-02	1.60E-02	1.50E-02	3.80E-02	1.50E-02	1.30E-01	2.80E-03	1.10E-02
Benzo(a)anthracene	Benz[a]anthracene	2.30E-02	4.10E-02	7.80E-02	3.50E-02	7.60E-02	3.60E-02	2.90E-01	1.80E-02	1.40E-02
Benzo(a)pyrene	Benzo[a]pyrene	1.10E-02	2.80E-02	1.20E-01	2.90E-02	5.90E-02	3.40E-02	2.20E-01	1.40E-02	1.30E-02
Benzo(b)fluoranthene	Benzo[b]fluoranthene	2.00E-02	4.00E-02	1.20E-01	3.80E-02	6.40E-02	4.70E-02	2.60E-01	1.40E-02	1.20E-02
Benzo(e)pyrene	Benzo[e]pyrene	8.20E-02	2.40E-02	3.70E-02	1.80E-02	4.40E-02	1.80E-02	1.70E-02	5.20E-02	--
Benzo(g,h,i)perylene	Benzo[g,h,i]perylene	1.60E-02	1.20E-02	2.00E-01	1.60E-02	3.50E-02	1.70E-02	3.50E-02	5.00E-03	6.70E-03
Benzo(k)fluoranthene	Benzo[k]fluoranthene	1.60E-02	2.00E-02	4.40E-02	2.30E-02	5.50E-02	2.40E-02	1.60E-01	9.80E-03	9.60E-03
Bis(2-ethylhexyl)phthalate		1.80E-02	9.50E-02	1.30E-01	5.40E-02	3.00E-02	5.30E-02	9.70E-02	1.90E-02	2.80E-02
Chrysene		9.90E-03	3.20E-02	1.00E-01	3.60E-02	5.30E-02	3.40E-02	2.20E-01	1.10E-02	9.70E-03
Dibenzo(a,h)anthracene	Dibenz[a,h]anthracene	3.30E-03	1.00E-02	3.90E-02	1.10E-02	2.70E-02	9.40E-03	2.50E-02	6.10E-03	7.70E-03
Di-n-octylphthalate	n-Dioctyl phthalate	--	5.00E-02	2.40E-02	1.80E-02	1.30E-02	2.60E-02	2.90E-01	2.00E-02	4.00E-02
Fluoranthene		1.40E-02	5.70E-02	7.20E-02	8.40E-02	9.30E-02	7.70E-02	6.40E-01	1.30E-02	1.60E-02
Fluorene		3.40E-03	4.60E-03	9.90E-03	1.00E-02	1.10E-02	6.30E-03	9.40E-02	2.80E-03	3.80E-03
Indeno(1,2,3-cd)pyrene	Indeno[1,2,3-cd]pyrene	6.30E-03	1.30E-02	2.60E-01	2.00E-02	4.50E-02	1.90E-02	4.40E-02	5.60E-03	8.40E-03
Naphthalene		8.40E-03	7.60E-02	1.60E-02	4.60E-03	2.30E-03	3.10E-03	3.80E-02	3.00E-03	4.90E-03
N-Nitrosodimethylamine		--	7.40E-04	4.40E-03	7.90E-03	2.10E-03	5.80E-02	2.90E-02	--	3.50E-03
Phenanthrene		8.60E-03	5.50E-02	4.60E-02	4.50E-02	3.40E-02	4.70E-02	4.90E-01	7.10E-03	1.00E-02
Pyrene		1.20E-02	5.00E-02	9.80E-02	7.50E-02	8.60E-02	6.80E-02	5.20E-01	1.30E-02	1.30E-02
Aroclor 1254	PCBs {Polychlorinated biphenyls}	3.70E-02	1.20E-02	4.70E-02	3.10E-02	4.00E-02	1.50E-01	2.90E-02	4.30E-02	8.30E-02
Aroclor 1260	PCBs {Polychlorinated biphenyls}	3.90E-02	3.00E-02	3.60E-02	2.50E-02	8.80E-03	4.80E-02	2.40E-02	8.10E-03	1.40E-01
Aroclor 5460	PCBs {Polychlorinated biphenyls}	5.60E-02	1.60E-02	2.00E-02	1.80E-02	6.00E-03	1.70E-01	3.40E-02	7.90E-02	3.60E-02
4,4'-DDD	Dichlorodiphenyldichloroethane {DDD}	9.35E-05								
4,4'-DDE	Dichlorodiphenyldichloroethylene {DDE}	1.79E-03								
4,4'-DDT	DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane}	2.48E-03								
beta-BHC	beta-Hexachlorocyclohexane	7.20E-05								
Chlordane (Technical)	Chlordane	1.96E-03								
delta-BHC	Hexachlorocyclohexanes (mixed or technical grade)	5.55E-05								
Dieldrin		8.08E-05								
MCPA	Chlorophenoxy herbicides	1.42E-01								
MCPP		9.76E-02								

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Step 4 - Assign lookup values f

Constituent	Pollutant ID	Pollutant ID (Alt Name)	Pollutant ID (Lookup)	Max Conc (mg/kg)
Antimony	7440360		7440360	8.60E+00
Cadmium	7440439		7440439	3.80E-01
Chromium, hexavalent		18540299	18540299	8.40E-01
Lead	7439921		7439921	1.80E+02
Mercury	7439976		7439976	8.30E-01
Selenium	7782492		7782492	4.90E-01
Silver	7440224		7440224	4.60E-01
Zinc	7440666		7440666	1.00E+02
1-Methylnaphthalene				
2-Methylnaphthalene		91576	91576	6.70E-01
Acenaphthene	83329		83329	1.80E-01
Anthracene	120127		120127	1.30E-01
Benzo(a)anthracene		56553	56553	2.90E-01
Benzo(a)pyrene		50328	50328	2.20E-01
Benzo(b)fluoranthene		205992	205992	2.60E-01
Benzo(e)pyrene		192972	192972	8.20E-02
Benzo(g,h,i)perylene		191242	191242	2.00E-01
Benzo(k)fluoranthene		207089	207089	1.60E-01
Bis(2-ethylhexyl)phthalate				
Chrysene	218019		218019	2.20E-01
Dibenzo(a,h)anthracene		53703	53703	3.90E-02
Di-n-octylphthalate		117840	117840	2.90E-01
Fluoranthene	206440		206440	6.40E-01
Fluorene	86737		86737	9.40E-02
Indeno(1,2,3-cd)pyrene		193395	193395	2.60E-01
Naphthalene	91203		91203	7.60E-02
N-Nitrosodimethylamine	62759		62759	5.80E-02
Phenanthrene	85018		85018	4.90E-01
Pyrene	129000		129000	5.20E-01
Aroclor 1254		1336363	1336363	1.50E-01
Aroclor 1260		1336363	1336363	1.40E-01
Aroclor 5460		1336363	1336363	1.70E-01
4,4'-DDD		72548	72548	9.35E-05
4,4'-DDE		72559	72559	1.79E-03
4,4'-DDT		50293	50293	2.48E-03
beta-BHC		319857	319857	7.20E-05
Chlordane (Technical)		57749	57749	1.96E-03
delta-BHC		608731	608731	5.55E-05
Dieldrin	60571		60571	8.08E-05
MCPA		1065	1065	1.42E-01
MCPP				

Santa Susana Field Laboratory
Combined Concentration Data

Copied from file "SSFL All Data Combined.xlsx" - Pivot Table, and DOE Data tab

Chemical Name	CAS No.	Units	Max Conc	Group No.
PCBs	1336363	mg/kg	0.17	2
1-8OctaCDD	3268879	mg/kg	0.268	2
1-3,7-9HxCDD	19408743	mg/kg	0.000492	2
1-4,6-8HpCDD	35822469	mg/kg	0.00301	2
1-8OctaCDF	39001020	mg/kg	0.00094	2
1-4,7,8HxCDD	39227286	mg/kg	0.000252	2
PCB 189	39635319	mg/kg	0.0000607	2
1-3,7,8PeCDD	40321764	mg/kg	0.00015	2
2,3,7,8-TCDF	51207319	mg/kg	0.00000443	2
1-4,7-9HpCDF	55673897	mg/kg	0.0000425	2
2-4,7,8PeCDF	57117314	mg/kg	0.0000146	2
1-3,7,8PeCDF	57117416	mg/kg	0.00000809	2
1-3,6-8HxCDF	57117449	mg/kg	0.0000149	2
1-3,6-8HxCDD	57653857	mg/kg	0.00061	2
2-4,6-8HxCDF	60851345	mg/kg	0.0000226	2
1-4,6-8HpCDF	67562394	mg/kg	0.000831	2
1-4,7,8HxCDF	70648269	mg/kg	0.0000187	2
1-3,7-9HxCDF	72918219	mg/kg	0.0000202	2
SULFATES	9960	mg/kg	7.5	2
Fluorides&cmpds	1101	mg/kg	7	2
Aluminum	7429905	mg/kg	14400	2
Lead	7439921	mg/kg	341	2
Manganese	7439965	mg/kg	2700	2
Mercury	7439976	mg/kg	1.67	2
Nickel	7440020	mg/kg	21	2
Silver	7440224	mg/kg	35.3	2
Thallium	7440280	mg/kg	0.457	2
Antimony	7440360	mg/kg	41.5	2
Arsenic	7440382	mg/kg	8.56	2
Barium	7440393	mg/kg	681	2
Beryllium	7440417	mg/kg	0.713	2
Cadmium	7440439	mg/kg	20.6	2
Chromium	7440473	mg/kg	1420	2
Cobalt	7440484	mg/kg	7.04	2
Copper	7440508	mg/kg	234	2
Vanadium	7440622	mg/kg	39.6	2
Zinc	7440666	mg/kg	546	2
Selenium	7782492	mg/kg	2.66	2
Cr(VI)	18540299	mg/kg	0.793	2
B[a]P	50328	mg/kg	0.341	2
D[a,h]anthracen	53703	mg/kg	0.036	2
B[a]anthracene	56553	mg/kg	0.276	2
Acenaphthene	83329	mg/kg	0.0254	2
Phenanthrene	85018	mg/kg	0.147	2

Pivot Table from Columns A-E

Pivot

Max of Max Conc		Group No.						
Chemical Name	CAS No.	2	3	4	9	DOE	Notes	**Max Conc (mg/kg)**
[D] Acetone	67641	0.0654	0.886	132	132			132
1,1,1-TCA	71556	0.325	0.00299	0				0.325
1,1,2TriClEthan	79005	0.00206		0				0.00206
1,1-DiClEthane	75343			0				0
1,2,3TriClPropn	96184			0				0
1,2,4TriClBenz	120821		0.007	0				0.007
1,2,4TriMeBenze	95636	5.4	0.036	0.002	0.004			5.4
1,2-DiClBenzene	95501	0.001	0.00703	0				0.00703
1,2-DiClEthylen	540590	0.176	0.0924	14	0.00205			14
1,2-DiClPropane	78875		0.000314	0				0.000314
1,3-DiClBenzene	541731	0.0006	0.000448	0				0.0006
1,3-DiClPropene	542756			0				0
1,4-Dioxane	123911	0.02		0				0.02
1-3,6-8HxCDD	57653857	0.00061		30.7	3.38E-08			30.7
1-3,6-8HxCDF	57117449	0.0000149		4.8	7.96E-09			4.8
1-3,7,8PeCDD	40321764	0.00015		6.32	3.9E-09			6.32
1-3,7,8PeCDF	57117416	0.00000809		8.3	9.57E-09			8.3
1-3,7-9HxCDD	19408743	0.000492		20.6	1.76E-08			20.6
1-3,7-9HxCDF	72918219	0.0000202		0.748	2.29E-09			0.748
1-4,6-8HpCDD	35822469	0.00301		536	0.00000112			536
1-4,6-8HpCDF	67562394	0.000831		71.9	0.000138			71.9
1-4,7,8HxCDD	39227286	0.000252		9.53	8.77E-09			9.53
1-4,7,8HxCDF	70648269	0.0000187		8.6	8.61E-09			8.6
1-4,7-9HpCDF	55673897	0.0000425		2.22	1.35E-08			2.22
1-8OctaCDD	3268879	0.268		6140	0.00899			6140
1-8OctaCDF	39001020	0.00094		158	0.000000334			158
2,3,7,8-TCDF	51207319	0.00000443		12.9	3.62E-08			12.9
2,4,5TriClPhenl	95954			0				0
2,4,6TriClPhenl	88062			0				0
2,4-DiClPhenol	120832			0				0
2,4-DiMePhenol	105679	2.88	11.5	0				11.5
2,4-DiNitToluen	121142			0				0
2,4-DiNPhenol	51285			0				0
2,6-DiNitToluen	606202			0				0
2-4,6-8HxCDF	60851345	0.0000226		8.4	0.000009			8.4
2-4,7,8PeCDF	57117314	0.0000146		4.69	5.79E-09			4.69
2-Chlorophenol	95578			0				0
2MeNaphthalene	91576	0.0175		0.041	5.71	0.67		5.71
2-NitroPhenol	88755			0				0
3,3'DiClBenzidn	91941			0				0
4,6-DiNiCresol	534521			0				0

Chemical Name	CAS No.	Units	Max Conc	Group No.									
Fluorene	86737	mg/kg	0.0142	2	4-Nitrophenol	100027			0				0
Naphthalene	91203	mg/kg	0.0162	2	Acenaphthene	83329	0.0254		0.021	0.417	0.18		0.417
2MeNaphthalene	91576	mg/kg	0.0175	2	Acenaphthylene	208968	0.0073		0.0055	0.274			0.274
Anthracene	120127	mg/kg	0.0214	2	Aldrin	309002			0				0
Pyrene	129000	mg/kg	0.328	2	alphaHexClCycHx	319846			0				0
B[g,h,i]perylen	191242	mg/kg	0.138	2	Aluminum	7429905	14400	20000	21000	29300			29300
In[1,2,3-cd]pyr	193395	mg/kg	0.264	2	Aniline	62533			0				0
B[b]fluoranthen	205992	mg/kg	0.383	2	Anthracene	120127	0.0214		0.064	0.441	0.13		0.441
Fluoranthene	206440	mg/kg	0.294	2	Antimony	7440360	41.5	4.52	3.4	2.16	8.6		41.5
B[k]fluoranthen	207089	mg/kg	0.155	2	Arsenic	7440382	8.56	9.7	11	8.68			11
Acenaphthylene	208968	mg/kg	0.0073	2	Azobenzene	103333			0				0
Chrysene	218019	mg/kg	0.187	2	B[a]anthracene	56553	0.276		0.27	0.0132	0.29		0.29
DiethylPhthalat	84662	mg/kg	0.03	2	B[a]P	50328	0.341		0.25	0.0182	0.22		0.341
DiButyl Phthal	84742	mg/kg	268	2	B[b]fluoranthen	205992	0.383		0.3	0.0286	0.26		0.383
ButylBenzPhthal	85687	mg/kg	0.00944	2	B[e]pyrene	192972					0.082		0.082
N-NitrosDiPhAmi	86306	mg/kg	0.35	2	B[g,h,i]perylen	191242	0.138		0.13	0.0254	0.2		0.2
Benzidine	92875	mg/kg	0.347	2	B[k]fluoranthen	207089	0.155		0.11	0.0127	0.16		0.16
o-Cresol	95487	mg/kg	1.05	2	Barium	7440393	681	110	140	161			681
2,4-DiMePhenol	105679	mg/kg	2.88	2	Benzene	71432	0.001		0.07	0.00732			0.07
m-Cresol	108394	mg/kg	43	2	Benzidine	92875	0.347		0				0.347
Phenol	108952	mg/kg	2.84	2	Beryllium	7440417	0.713	1.4	0.83	0.984			1.4
Di2-EthHxPhthal	117817	mg/kg	20.8	2	Bis(2ClEth)Ethr	111444			0				0
n-DiOctylPhthal	117840	mg/kg	2.6	2	BromoDiClMethan	75274		0.009	0	0.007			0.009
1,4-Dioxane	123911	mg/kg	0.02	2	Bromoform	75252			0				0
[D] Acetone	67641	mg/kg	0.0654	2	ButylBenzPhthal	85687	0.00944	0.127	0.0051	0.0127			0.127
Chloroform	67663	mg/kg	0.00211	2	Cadmium	7440439	20.6	8	**49**	1.33	0.38	Hotspot.	20.6
Benzene	71432	mg/kg	0.001	2	CCl4	56235			0			Group 4, Coca	0
1,1,1-TCA	71556	mg/kg	0.325	2	CFC-113	76131			0				0
Methyl Bromide	74839	mg/kg	0.0005	2	Chlorobenzn	108907	0.271	0.008	0	0.005			0.271
Vinyl Chloride	75014	mg/kg	0.004	2	ChloroDiBrMetha	124481			0				0
Methylene Chlor	75092	mg/kg	0.59	2	Chloroform	67663	0.00211	0.003	0				0.003
Vinylid Chlorid	75354	mg/kg	0.000324	2	Chromium	7440473	1420	39	100	52.6			1420
MEK	78933	mg/kg	0.00923	2	Chrysene	218019	0.187		0.29	0.0232	0.22		0.29
1,1,2TriClEthan	79005	mg/kg	0.00206	2	Cobalt	7440484	7.04	14	19	9.87			19
TCE	79016	mg/kg	12.2	2	Copper	7440508	234	70.9	71	43.2			234
o-Xylene	95476	mg/kg	0.252	2	Cr(VI)	18540299	0.793	0.768		**6.2**	0.84	Hotspot.	0.84
1,2-DiClBenzene	95501	mg/kg	0.001	2	CS2	75150			0			Group 9,	0
1,2,4TriMeBenze	95636	mg/kg	5.4	2	Cumene	98828	0.381	0.000432	0				0.381
Cumene	98828	mg/kg	0.381	2	D[a,h]anthracen	53703	0.036		0.041	0.0108	0.039		0.041
Ethyl Benzene	100414	mg/kg	0.0549	2	DBCP	96128			0.009				0.009
Styrene	100425	mg/kg	0.000496	2	DDD	72548			0		0.0000935		0.0000935
p-DiClBenzene	106467	mg/kg	0.178	2	DDT	50293			0		0.00248		0.00248
Toluene	108883	mg/kg	0.00203	2	Di2-EthHxPhthal	117817	20.8	1.73	0.4	0.425			20.8
Chlorobenzn	108907	mg/kg	0.271	2	Dibenzofuran	132649			0				0
Perc	127184	mg/kg	0.183	2	DiButyl Phthal	84742	268	0.0335	0.0828	0.00893			268
1,2-DiClEthylen	540590	mg/kg	0.176	2	DiClDiFlmethane	75718			0				0
1,3-DiClBenzene	541731	mg/kg	0.0006	2	DiClDiPhEthylen	72559			0		0.00179		0.00179
Xylenes	1330207	mg/kg	0.417	2	Dieldrin	60571			0		0.0000808		0.0000808
PCBs	1336363	mg/kg	5.46	3	DiethylPhthalat	84662	0.03	0.04	0	0.041			0.041
SULFATES	9960	mg/kg	13.7	3	DimethylPhthala	131113			0.00061	0.315			0.315

Chemical Name	CAS No.	Units	Max Conc	Group No.									
Fluorides&cmpds	1101	mg/kg	200	3	EDB	106934			0				0
Aluminum	7429905	mg/kg	20000	3	Ethyl Benzene	100414	0.0549	0.02	0.22	0.0314			0.22
Lead	7439921	mg/kg	59.7	3	Ethyl Chloride	75003			0				0
Manganese	7439965	mg/kg	509	3	Fluoranthene	206440	0.294		0.51	0.0489	0.64		0.64
Mercury	7439976	mg/kg	0.0947	3	Fluorene	86737	0.0142		0.0098	0.563	0.094		0.563
Nickel	7440020	mg/kg	30.9	3	Fluorides&cmpds	1101	7	200	570	3.08			570
Silver	7440224	mg/kg	8.15	3	Formaldehyde	50000		9.48	29	25.6			29
Thallium	7440280	mg/kg	0.636	3	HeptachloEpoxid	1024573			0				0
Antimony	7440360	mg/kg	4.52	3	Heptachlor	76448			0				0
Arsenic	7440382	mg/kg	9.7	3	HexaClBenzene	118741			0				0
Barium	7440393	mg/kg	110	3	HexaClButadiene	87683			0				0
Beryllium	7440417	mg/kg	1.4	3	HexaClEthane	67721			0				0
Cadmium	7440439	mg/kg	8	3	HexClCycPentadi	77474			0				0
Chromium	7440473	mg/kg	39	3	In[1,2,3-cd]pyr	193395	0.264		0.12	0.0177	0.26		0.264
Cobalt	7440484	mg/kg	14	3	Isophorone	78591			0				0
Copper	7440508	mg/kg	70.9	3	Lead	7439921	341	59.7	**890**	25	180	Hotspots.	180
Vanadium	7440622	mg/kg	58	3	Lindane	58899			0			Group 4, Coca	0
Zinc	7440666	mg/kg	186	3	Manganese	7439965	2700	509	205	586			2700
Selenium	7782492	mg/kg	0.68	3	m-Cresol	108394	43						43
Cr(VI)	18540299	mg/kg	0.768	3	Me t-ButylEther	1634044			0				0
Fluorides&cmpds	1101	mg/kg	7	3	MEK	78933	0.00923	0.014	4.4	0.035			4.4
Aluminum	7429905	mg/kg	15400	3	Mercury	7439976	1.67	0.0947	0.14	0.117	0.83		1.67
Lead	7439921	mg/kg	17.7	3	Methyl Bromide	74839	0.0005		0				0.0005
Manganese	7439965	mg/kg	411	3	Methyl Chloride	74873		0.00204	0				0.00204
Mercury	7439976	mg/kg	0.0133	3	Methylene Chlor	75092	0.59	0.0529	2.3	0.00522			2.3
Nickel	7440020	mg/kg	18.8	3	MethyleneBromid	74953			0				0
Silver	7440224	mg/kg	0.164	3	MIBK	108101		0.00313	0				0.00313
Thallium	7440280	mg/kg	0.192	3	Naphthalene	91203	0.0162		0.07	2	0.076		2
Antimony	7440360	mg/kg	4.15	3	n-DiOctylPhthal	117840	2.6	0.0434	0.0035	0.132	0.29		2.6
Arsenic	7440382	mg/kg	6.57	3	Nickel	7440020	21	30.9	30.1	36.5			36.5
Barium	7440393	mg/kg	100	3	Nitrobenzene	98953			0				0
Beryllium	7440417	mg/kg	1.02	3	N-NitrosDiPhAmi	86306	0.35	0.12	0				0.35
Cadmium	7440439	mg/kg	8	3	N-NitrosDMA	62759			0	0.00862	0.058		0.058
Chromium	7440473	mg/kg	30.2	3	N-NitrosDPrAmin	621647			0				0
Cobalt	7440484	mg/kg	11.1	3	o-Cresol	95487	1.05		0				1.05
Copper	7440508	mg/kg	24.6	3	o-Xylene	95476	0.252	0.028	0.006	0.004			0.252
Vanadium	7440622	mg/kg	46.2	3	PCB 189	39635319	0.0000607			0.00319			0.00319
Zinc	7440666	mg/kg	96	3	PCBs	1336363	0.17	5.46	0.69	0.742	0.17		5.46
Selenium	7782492	mg/kg	0.23	3	p-Chloroaniline	106478			0				0
Formaldehyde	50000	mg/kg	9.48	3	PCP	87865			0				0
DiethylPhthalat	84662	mg/kg	0.04	3	p-Cresol	106445			0				0
DiButyl Phthal	84742	mg/kg	0.0335	3	p-DiClBenzene	106467	0.178	0.00335	0.000267				0.178
ButylBenzPhthal	85687	mg/kg	0.127	3	Perc	127184	0.183	0.000943	0.002				0.183
N-NitrosDiPhAmi	86306	mg/kg	0.12	3	Perylene	198550				0.028			0.028
2,4-DiMePhenol	105679	mg/kg	11.5	3	Phenanthrene	85018	0.147		0.25	1.8	0.49		1.8
Phenol	108952	mg/kg	1.39	3	Phenol	108952	2.84	1.39	0				2.84
Di2-EthHxPhthal	117817	mg/kg	1.73	3	Pyrene	129000	0.328		0.46	0.0899	0.52		0.52
n-DiOctylPhthal	117840	mg/kg	0.0434	3	Selenium	7782492	2.66	0.68	1.5	0.779	0.49		2.66
[D] Acetone	67641	mg/kg	0.886	3	Silver	7440224	35.3	8.15	0.52	79.7	0.46		79.7
Chloroform	67663	mg/kg	0.003	3	Styrene	100425	0.000496	0.00788	0	0.000327			0.00788
1,1,1-TCA	71556	mg/kg	0.00299	3	SULFATES	9960	7.5	13.7		56.1			56.1
Methyl Chloride	74873	mg/kg	0.00204	3	t-Butyl Alcohol	75650			0				0
Methylene Chlor	75092	mg/kg	0.0529	3	TCE	79016	12.2	6.74	84	3.63			84
BromoDiClMethan	75274	mg/kg	0.009	3	TetraClEthane	79345			0				0
Vinylid Chlorid	75354	mg/kg	0.00109	3	Thallium	7440280	0.457	0.636	0.73	0.44			0.73
TriClFluorMetha	75694	mg/kg	0.003	3	Toluene	108883	0.00203	0.00144	0.008	0.1			0.1
1,2-DiClPropane	78875	mg/kg	0.000314	3	TriClFluorMetha	75694		0.003	0	0.002			0.003
MEK	78933	mg/kg	0.014	3	Vanadium	7440622	39.6	58	51.5	66.4			66.4
TCE	79016	mg/kg	6.74	3	Vinyl Acetate	108054			0				0
o-Xylene	95476	mg/kg	0.028	3	Vinyl Chloride	75014	0.004		0.062				0.062

Chemical Name	CAS No.	Units	Max Conc	Group No.
1,2-DiClBenzene	95501	mg/kg	0.00703	3
1,2,4TriMeBenze	95636	mg/kg	0.036	3
Cumene	98828	mg/kg	0.000432	3
Ethyl Benzene	100414	mg/kg	0.02	3
Styrene	100425	mg/kg	0.00788	3
p-DiClBenzene	106467	mg/kg	0.00335	3
MIBK	108101	mg/kg	0.00313	3
Toluene	108883	mg/kg	0.00144	3
Chlorobenzn	108907	mg/kg	0.008	3
1,2,4TriClBenz	120821	mg/kg	0.007	3
Perc	127184	mg/kg	0.000943	3
1,2-DiClEthylen	540590	mg/kg	0.0924	3
1,3-DiClBenzene	541731	mg/kg	0.000448	3
Xylenes	1330207	mg/kg	0.034	3
Fluorides&cmpds	1101	mg/kg	570	4
Formaldehyde	50000	mg/kg	29	4
DDT	50293	µg/kg	0	4
B[a]P	50328	µg/kg	0.25	4
2,4-DiNPhenol	51285	µg/kg	0	4
D[a,h]anthracen	53703	µg/kg	0.041	4
CCl4	56235	µg/kg	0	4
B[a]anthracene	56553	µg/kg	0.27	4
Lindane	58899	µg/kg	0	4
Dieldrin	60571	µg/kg	0	4
Aniline	62533	µg/kg	0	4
N-NitrosDMA	62759	µg/kg	0	4
[D] Acetone	67641	µg/kg	132	4
Chloroform	67663	µg/kg	0	4
HexaClEthane	67721	µg/kg	0	4
Benzene	71432	µg/kg	0.07	4
1,1,1-TCA	71556	µg/kg	0	4
DDD	72548	µg/kg	0	4
DiClDiPhEthylen	72559	µg/kg	0	4
Methyl Bromide	74839	µg/kg	0	4
Methyl Chloride	74873	µg/kg	0	4
MethyleneBromid	74953	µg/kg	0	4
Ethyl Chloride	75003	µg/kg	0	4
Vinyl Chloride	75014	µg/kg	0.062	4
Methylene Chlor	75092	µg/kg	2.3	4
CS2	75150	µg/kg	0	4

Vinylid Chlorid	75354	0.000324	0.00109	0.0033	0.00097		0.0033
Xylenes	1330207	0.417	0.034	6.2	0.011		6.2
Zinc	7440666	546	186	2800	160	100	2800
betaHexClCycHx	319857					0.000072	0.000072
Chlordane	57749					0.00196	0.00196
HexClCycHexanes	608731					0.0000555	0.0000555
Cl-phenoxy herb	1065					0.142	0.142

Chemical Name	CAS No.	Units	Max Conc	Group No.
Bromoform	75252	µg/kg	0	4
BromoDiClMethan	75274	µg/kg	0	4
1,1-DiClEthane	75343	µg/kg	0	4
Vinylid Chlorid	75354	µg/kg	0.0033	4
t-Butyl Alcohol	75650	µg/kg	0	4
TriClFluorMetha	75694	µg/kg	0	4
DiClDiFlmethane	75718	µg/kg	0	4
CFC-113	76131	µg/kg	0	4
Heptachlor	76448	µg/kg	0	4
HexClCycPentadi	77474	µg/kg	0	4
Isophorone	78591	µg/kg	0	4
1,2-DiClPropane	78875	µg/kg	0	4
MEK	78933	µg/kg	4.4	4
1,1,2TriClEthan	79005	µg/kg	0	4
TCE	79016	µg/kg	84	4
TetraClEthane	79345	µg/kg	0	4
Acenaphthene	83329	µg/kg	0.021	4
DiethylPhthalat	84662	µg/kg	0	4
DiButyl Phthal	84742	µg/kg	0.0828	4
Phenanthrene	85018	µg/kg	0.25	4
ButylBenzPhthal	85687	µg/kg	0.0051	4
N-NitrosDiPhAmi	86306	µg/kg	0	4
Fluorene	86737	µg/kg	0.0098	4
HexaClButadiene	87683	µg/kg	0	4
PCP	87865	µg/kg	0	4
2,4,6TriClPhenl	88062	µg/kg	0	4
2-NitroPhenol	88755	µg/kg	0	4
Naphthalene	91203	µg/kg	0.07	4
2MeNaphthalene	91576	µg/kg	0.041	4
3,3'DiClBenzidn	91941	µg/kg	0	4
Benzidine	92875	µg/kg	0	4
o-Xylene	95476	µg/kg	0.006	4
o-Cresol	95487	µg/kg	0	4
1,2-DiClBenzene	95501	µg/kg	0	4
2-Chlorophenol	95578	µg/kg	0	4
1,2,4TriMeBenze	95636	µg/kg	0.002	4
2,4,5TriClPhenl	95954	µg/kg	0	4
DBCP	96128	µg/kg	0.009	4
1,2,3TriClPropn	96184	µg/kg	0	4
Cumene	98828	µg/kg	0	4
Nitrobenzene	98953	µg/kg	0	4
4-Nitrophenol	100027	µg/kg	0	4
Ethyl Benzene	100414	µg/kg	0.22	4
Styrene	100425	µg/kg	0	4
Azobenzene	103333	µg/kg	0	4
2,4-DiMePhenol	105679	µg/kg	0	4
p-Cresol	106445	µg/kg	0	4
p-DiClBenzene	106467	µg/kg	0.000267	4
p-Chloroaniline	106478	µg/kg	0	4
EDB	106934	µg/kg	0	4
Vinyl Acetate	108054	µg/kg	0	4
MIBK	108101	µg/kg	0	4
Toluene	108883	µg/kg	0.008	4
Chlorobenzn	108907	µg/kg	0	4
Phenol	108952	µg/kg	0	4
Bis(2ClEth)Ethr	111444	µg/kg	0	4
Di2-EthHxPhthal	117817	µg/kg	0.4	4
n-DiOctylPhthal	117840	µg/kg	0.0035	4
HexaClBenzene	118741	µg/kg	0	4
Anthracene	120127	µg/kg	0.064	4

Chemical Name	CAS No.	Units	Max Conc	Group No.
1,2,4TriClBenz	120821	µg/kg	0	4
2,4-DiClPhenol	120832	µg/kg	0	4
2,4-DiNitToluen	121142	µg/kg	0	4
1,4-Dioxane	123911	µg/kg	0	4
ChloroDiBrMetha	124481	µg/kg	0	4
Perc	127184	µg/kg	0.002	4
Pyrene	129000	µg/kg	0.46	4
DimethylPhthala	131113	µg/kg	0.00061	4
Dibenzofuran	132649	µg/kg	0	4
B[g,h,i]perylen	191242	µg/kg	0.13	4
In[1,2,3-cd]pyr	193395	µg/kg	0.12	4
B[b]fluoranthen	205992	µg/kg	0.3	4
Fluoranthene	206440	µg/kg	0.51	4
B[k]fluoranthen	207089	µg/kg	0.11	4
Acenaphthylene	208968	µg/kg	0.0055	4
Chrysene	218019	µg/kg	0.29	4
Aldrin	309002	µg/kg	0	4
alphaHexClCycHx	319846	µg/kg	0	4
4,6-DiNiCresol	534521	µg/kg	0	4
1,2-DiClEthylen	540590	µg/kg	14	4
1,3-DiClBenzene	541731	µg/kg	0	4
1,3-DiClPropene	542756	µg/kg	0	4
2,6-DiNitToluen	606202	µg/kg	0	4
N-NitrosDPrAmin	621647	µg/kg	0	4
HeptachloEpoxid	1024573	µg/kg	0	4
Xylenes	1330207	µg/kg	6.2	4
PCBs	1336363	µg/kg	0.69	4
Me t-ButylEther	1634044	µg/kg	0	4
1-8OctaCDD	3268879	pg/g	6140	4
Aluminum	7429905	mg/kg	21000	4
Lead	7439921	mg/kg	890	4
Manganese	7439965	mg/kg	205	4
Mercury	7439976	mg/kg	0.14	4
Nickel	7440020	mg/kg	30.1	4
Silver	7440224	mg/kg	0.52	4
Thallium	7440280	mg/kg	0.73	4
Antimony	7440360	mg/kg	3.4	4
Arsenic	7440382	mg/kg	11	4
Barium	7440393	mg/kg	140	4
Beryllium	7440417	mg/kg	0.83	4

Chemical Name	CAS No.	Units	Max Conc	Group No.
Cadmium	7440439	mg/kg	49	4
Chromium	7440473	mg/kg	100	4
Cobalt	7440484	mg/kg	19	4
Copper	7440508	mg/kg	71	4
Vanadium	7440622	mg/kg	51.5	4
Zinc	7440666	mg/kg	2800	4
Selenium	7782492	mg/kg	1.5	4
Cr(VI)	18540299	mg/kg		4
1-3,7-9HxCDD	19408743	pg/g	20.6	4
1-4,6-8HpCDD	35822469	pg/g	536	4
1-8OctaCDF	39001020	pg/g	158	4
1-4,7,8HxCDD	39227286	pg/g	9.53	4
1-3,7,8PeCDD	40321764	pg/g	6.32	4
2,3,7,8-TCDF	51207319	pg/g	12.9	4
1-4,7-9HpCDF	55673897	pg/g	2.22	4
2-4,7,8PeCDF	57117314	pg/g	4.69	4
1-3,7,8PeCDF	57117416	pg/g	8.3	4
1-3,6-8HxCDF	57117449	pg/g	4.8	4
1-3,6-8HxCDD	57653857	pg/g	30.7	4
2-4,6-8HxCDF	60851345	pg/g	8.4	4
1-4,6-8HpCDF	67562394	pg/g	71.9	4
1-4,7,8HxCDF	70648269	pg/g	8.6	4
1-3,7-9HxCDF	72918219	pg/g	0.748	4
Fluorides&cmpds	1101	mg/kg	3.08	9
SULFATES	9960	mg/kg	56.1	9
Formaldehyde	50000	mg/kg	25.6	9
B[a]P	50328	mg/kg	0.0182	9
D[a,h]anthracen	53703	mg/kg	0.0108	9
B[a]anthracene	56553	mg/kg	0.0132	9
N-NitrosDMA	62759	mg/kg	0.00862	9
[D] Acetone	67641	mg/kg	132	9
Benzene	71432	mg/kg	0.00732	9
Methylene Chlor	75092	mg/kg	0.00522	9
BromoDiClMethan	75274	mg/kg	0.007	9
Vinylid Chlorid	75354	mg/kg	0.00097	9
TriClFluorMetha	75694	mg/kg	0.002	9
MEK	78933	mg/kg	0.035	9
TCE	79016	mg/kg	3.63	9
Acenaphthene	83329	mg/kg	0.417	9
DiethylPhthalat	84662	mg/kg	0.041	9
DiButyl Phthal	84742	mg/kg	0.00893	9
Phenanthrene	85018	mg/kg	1.8	9
ButylBenzPhthal	85687	mg/kg	0.0127	9
Fluorene	86737	mg/kg	0.563	9
Naphthalene	91203	mg/kg	2	9
2MeNaphthalene	91576	mg/kg	5.71	9
o-Xylene	95476	mg/kg	0.004	9
1,2,4TriMeBenze	95636	mg/kg	0.004	9
Ethyl Benzene	100414	mg/kg	0.0314	9
Styrene	100425	mg/kg	0.000327	9
Toluene	108883	mg/kg	0.1	9
Chlorobenzn	108907	mg/kg	0.005	9
Di2-EthHxPhthal	117817	mg/kg	0.425	9
n-DiOctylPhthal	117840	mg/kg	0.132	9
Anthracene	120127	mg/kg	0.441	9
Pyrene	129000	mg/kg	0.0899	9
DimethylPhthala	131113	mg/kg	0.315	9
B[g,h,i]perylen	191242	mg/kg	0.0254	9
In[1,2,3-cd]pyr	193395	mg/kg	0.0177	9
Perylene	198550	mg/kg	0.028	9

Chemical Name	CAS No.	Units	Max Conc	Group No.
B[b]fluoranthen	205992	mg/kg	0.0286	9
Fluoranthene	206440	mg/kg	0.0489	9
B[k]fluoranthen	207089	mg/kg	0.0127	9
Acenaphthylene	208968	mg/kg	0.274	9
Chrysene	218019	mg/kg	0.0232	9
1,2-DiClEthylen	540590	mg/kg	0.00205	9
Xylenes	1330207	mg/kg	0.011	9
PCBs	1336363	mg/kg	0.742	9
1-8OctaCDD	3268879	mg/kg	0.00899	9
Aluminum	7429905	mg/kg	29300	9
Lead	7439921	mg/kg	25	9
Manganese	7439965	mg/kg	586	9
Mercury	7439976	mg/kg	0.117	9
Nickel	7440020	mg/kg	36.5	9
Silver	7440224	mg/kg	79.7	9
Thallium	7440280	mg/kg	0.44	9
Antimony	7440360	mg/kg	2.16	9
Arsenic	7440382	mg/kg	8.68	9
Barium	7440393	mg/kg	161	9
Beryllium	7440417	mg/kg	0.984	9
Cadmium	7440439	mg/kg	1.33	9
Chromium	7440473	mg/kg	52.6	9
Cobalt	7440484	mg/kg	9.87	9
Copper	7440508	mg/kg	43.2	9
Vanadium	7440622	mg/kg	66.4	9
Zinc	7440666	mg/kg	160	9
Selenium	7782492	mg/kg	0.779	9
Cr(VI)	18540299	mg/kg	6.2	9
1-3,7-9HxCDD	19408743	mg/kg	1.76E-08	9
1-4,6-8HpCDD	35822469	mg/kg	0.00000112	9
1-8OctaCDF	39001020	mg/kg	0.000000334	9
1-4,7,8HxCDD	39227286	mg/kg	8.77E-09	9
PCB 189	39635319	mg/kg	0.00319	9
1-3,7,8PeCDD	40321764	mg/kg	3.9E-09	9
2,3,7,8-TCDF	51207319	mg/kg	3.62E-08	9
1-4,7-9HpCDF	55673897	mg/kg	1.35E-08	9
2-4,7,8PeCDF	57117314	mg/kg	5.79E-09	9
1-3,7,8PeCDF	57117416	mg/kg	9.57E-09	9
1-3,6-8HxCDF	57117449	mg/kg	7.96E-09	9
1-3,6-8HxCDD	57653857	mg/kg	3.38E-08	9

Chemical Name	CAS No.	Units	Max Conc	Group No.
2-4,6-8HxCDF	60851345	mg/kg	0.000009	9
1-4,6-8HpCDF	67562394	mg/kg	0.000138	9
1-4,7,8HxCDF	70648269	mg/kg	8.61E-09	9
1-3,7-9HxCDF	72918219	mg/kg	2.29E-09	9
Antimony	7440360	mg/kg	8.6	DOE
Cadmium	7440439	mg/kg	0.38	DOE
Cr(VI)	18540299	mg/kg	0.84	DOE
Lead	7439921	mg/kg	180	DOE
Mercury	7439976	mg/kg	0.83	DOE
Selenium	7782492	mg/kg	0.49	DOE
Silver	7440224	mg/kg	0.46	DOE
Zinc	7440666	mg/kg	100	DOE
2MeNaphthalene	91576	mg/kg	0.67	DOE
Acenaphthene	83329	mg/kg	0.18	DOE
Anthracene	120127	mg/kg	0.13	DOE
B[a]anthracene	56553	mg/kg	0.29	DOE
B[a]P	50328	mg/kg	0.22	DOE
B[b]fluoranthen	205992	mg/kg	0.26	DOE
B[e]pyrene	192972	mg/kg	0.082	DOE
B[g,h,i]perylen	191242	mg/kg	0.2	DOE
B[k]fluoranthen	207089	mg/kg	0.16	DOE
Chrysene	218019	mg/kg	0.22	DOE
D[a,h]anthracen	53703	mg/kg	0.039	DOE
n-DiOctylPhthal	117840	mg/kg	0.29	DOE
Fluoranthene	206440	mg/kg	0.64	DOE
Fluorene	86737	mg/kg	0.094	DOE
In[1,2,3-cd]pyr	193395	mg/kg	0.26	DOE
Naphthalene	91203	mg/kg	0.076	DOE
N-NitrosDMA	62759	mg/kg	0.058	DOE
Phenanthrene	85018	mg/kg	0.49	DOE
Pyrene	129000	mg/kg	0.52	DOE
PCBs	1336363	mg/kg	0.15	DOE
PCBs	1336363	mg/kg	0.14	DOE
PCBs	1336363	mg/kg	0.17	DOE
DDD	72548	mg/kg	0.0000935	DOE
DiClDiPhEthylen	72559	mg/kg	0.00179	DOE
DDT	50293	mg/kg	0.00248	DOE
betaHexClCycHx	319857	mg/kg	0.000072	DOE
Chlordane	57749	mg/kg	0.00196	DOE
HexClCycHexanes	608731	mg/kg	0.0000555	DOE
Dieldrin	60571	mg/kg	0.0000808	DOE
Cl-phenoxy herb	1065	mg/kg	0.142	DOE

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Chemical List

No.	Row Labels	CAS No.	Max		
1	[D] Acetone	67641	132		
2	1,1,1-TCA	71556	0.325		
3	1,1,2TriClEthan	79005	0.00206		
4	1,1-DiClEthane	75343	0		
5	1,2,3TriClPropn	96184	0		
6	1,2,4TriClBenz	120821	0.007		
7	1,2,4TriMeBenze	95636	5.4		
8	1,2-DiClBenzene	95501	0.00703		
9	1,2-DiClEthylen	540590	14		
10	1,2-DiClPropane	78875	0.000314		
11	1,3-DiClBenzene	541731	0.0006		
12	1,3-DiClPropene	542756	0		
13	1,4-Dioxane	123911	0.02		
14	1-3,6-8HxCDD	57653857		30.7	Dioxins
15	1-3,6-8HxCDF	57117449		4.8	Dioxins
16	1-3,7,8PeCDD	40321764		6.32	Dioxins
17	1-3,7,8PeCDF	57117416		8.3	Dioxins
18	1-3,7-9HxCDD	19408743		20.6	Dioxins
19	1-3,7-9HxCDF	72918219		0.748	Dioxins
20	1-4,6-8HpCDD	35822469		536	Dioxins
21	1-4,6-8HpCDF	67562394		71.9	Dioxins
22	1-4,7,8HxCDD	39227286		9.53	Dioxins
23	1-4,7,8HxCDF	70648269		8.6	Dioxins
24	1-4,7-9HpCDF	55673897		2.22	Dioxins
25	1-8OctaCDD	3268879		6140	Dioxins
26	1-8OctaCDF	39001020		158	Dioxins
27	2,3,7,8-TCDF	51207319		12.9	Dioxins
28	2,4,5TriClPhenl	95954	0		
29	2,4,6TriClPhenl	88062	0		
30	2,4-DiClPhenol	120832	0		
31	2,4-DiMePhenol	105679	11.5		
32	2,4-DiNitToluen	121142	0		
33	2,4-DiNPhenol	51285	0		
34	2,6-DiNitToluen	606202	0		
35	2-4,6-8HxCDF	60851345		8.4	Dioxins
36	2-4,7,8PeCDF	57117314		4.69	Dioxins
37	2-Chlorophenol	95578	0		
38	2MeNaphthalene	91576	5.71		
39	2-NitroPhenol	88755	0		
40	3,3'DiClBenzidn	91941	0		
41	4,6-DiNiCresol	534521	0		
42	4-Nitrophenol	100027	0		
43	Acenaphthene	83329	0.417		
44	Acenaphthylene	208968	0.274		
45	Aldrin	309002	0		
46	alphaHexClCycHx	319846	0		
47	Aluminum	7429905	29300		
48	Aniline	62533	0		
49	Anthracene	120127	0.441		
50	Antimony	7440360	41.5		
51	Arsenic	7440382	11		
52	Azobenzene	103333	0		
53	B[a]anthracene	56553	0.29		
54	B[a]P	50328	0.341		
55	B[b]fluoranthen	205992	0.383		
56	B[e]pyrene	192972	0.082		
57	B[g,h,i]perylen	191242	0.2		
58	B[k]fluoranthen	207089	0.16		
59	Barium	7440393	681		
60	Benzene	71432	0.07		
61	Benzidine	92875	0.347		
62	Beryllium	7440417	1.4		
63	Bis(2ClEth)Ethr	111444	0		
64	BromoDiClMethan	75274	0.009		
65	Bromoform	75252	0		
66	ButylBenzPhthal	85687	0.127		
67	Cadmium	7440439	20.6		
68	CCl4	56235	0		
69	CFC-113	76131	0		
70	Chlorobenzn	108907	0.271		
71	ChloroDiBrMetha	124481	0		
72	Chloroform	67663	0.003		
73	Chromium	7440473	1420		
74	Chrysene	218019	0.29		
75	Cobalt	7440484	19		
76	Copper	7440508	234		
77	Cr(VI)	18540299	0.84		
78	CS2	75150	0		
79	Cumene	98828	0.381		
80	D[a,h]anthracen	53703	0.041		
81	DBCP	96128	0.009		
82	DDD	72548	0.0000935		
83	DDT	50293	0.00248		
84	Di2-EthHxPhthal	117817	20.8		
85	Dibenzofuran	132649	0		
86	DiButyl Phthal	84742	268		
87	DiClDiFlmethane	75718	0		
88	DiClDiPhEthylen	72559	0.00179		
89	Dieldrin	60571	0.0000808		
90	DiethylPhthalat	84662	0.041		
91	DimethylPhthala	131113	0.315		
92	EDB	106934	0		
93	Ethyl Benzene	100414	0.22		
94	Ethyl Chloride	75003	0		
95	Fluoranthene	206440	0.64		
96	Fluorene	86737	0.563		
97	Fluorides&cmpds	1101	570		

← These numbers will be used to calculate emissions for HARP Input. Taken from Combined Conc Data tab and Dioxins tab.

These numbers will be used to calculate emissions for HARP Input. Taken from Combined Conc Data tab and Dioxins tab.

No.	Row Labels	CAS No.	Max
98	Formaldehyde	50000	29
99	HeptachloEpoxid	1024573	0
100	Heptachlor	76448	0
101	HexaClBenzene	118741	0
102	HexaClButadiene	87683	0
103	HexaClEthane	67721	0
104	HexClCycPentadi	77474	0
105	In[1,2,3-cd]pyr	193395	0.264
106	Isophorone	78591	0
107	Lead	7439921	180
108	Lindane	58899	0
109	Manganese	7439965	2700
110	m-Cresol	108394	43
111	Me t-ButylEther	1634044	0
112	MEK	78933	4.4
113	Mercury	7439976	1.67
114	Methyl Bromide	74839	0.0005
115	Methyl Chloride	74873	0.00204
116	Methylene Chlor	75092	2.3
117	MethyleneBromid	74953	0
118	MIBK	108101	0.00313
119	Naphthalene	91203	2
120	n-DiOctylPhthal	117840	2.6
121	Nickel	7440020	36.5
122	Nitrobenzene	98953	0
123	N-NitrosDiPhAmi	86306	0.35
124	N-NitrosDMA	62759	0.058
125	N-NitrosDPrAmin	621647	0
126	o-Cresol	95487	1.05
127	o-Xylene	95476	0.252
128	PCB 189	39635319	0.00319
129	PCBs	1336363	5.46
130	p-Chloroaniline	106478	0
131	PCP	87865	0
132	p-Cresol	106445	0
133	p-DiClBenzene	106467	0.178
134	Perc	127184	0.183
135	Perylene	198550	0.028
136	Phenanthrene	85018	1.8
137	Phenol	108952	2.84
138	Pyrene	129000	0.52
139	Selenium	7782492	2.66
140	Silver	7440224	79.7
141	Styrene	100425	0.00788
142	SULFATES	9960	56.1
143	t-Butyl Alcohol	75650	0
144	TCE	79016	84
145	TetraClEthane	79345	0
146	Thallium	7440280	0.73
147	Toluene	108883	0.1
148	TriClFluorMetha	75694	0.003
149	Vanadium	7440622	66.4
150	Vinyl Acetate	108054	0
151	Vinyl Chloride	75014	0.062
152	Vinylid Chlorid	75354	0.0033
153	Xylenes	1330207	6.2
154	Zinc	7440666	2800
155	betaHexClCycHx	319857	0.000072
156	Chlordane	57749	0.00196
157	HexClCycHexanes	608731	0.0000555
158	Cl-phenoxy herb	1065	0.142
159	2,3,7,8-TCDD	1746016	0.0001058

Santa Susana Field Laboratory
List of Hotspots and Chemicals
Please see file titled "Hotspots - Fugitive Dust.xlsx" for calculations

Chemical	Concentration (mg/kg)	Location	Total Acres	PM10 (lbs/year)	Chemical Emissions (lbs/year)	Notes		
Cadmium	49	Group 4, Coca site. Test Stand 4	16	416.4	2.0E-02	Page 3-2 of Group 4 RCRA Facility Investigation Report	ASNSR1	Test stand 4 is within the COCA
Cr(VI)	6.2	Group 9, Silvernale.	11.8	321.0	2.0E-03	Page 1-8 of SSFL Group9_RI Report	ASDSR1	site area
Lead	341	Group 2	21.9	550.3	1.9E-01	Page 1-14 of SSFL_GRP2_RFI_Text.pdf	ASDSR1	
Lead	890	Group 4, Coca site	16	416.4	3.7E-01	Page 3-2 of Group 4 RCRA Facility Investigation Report	ASNSR2	
2, 3, 7, 8 - TCDD	4.2E-04	Group 2, ELV	8.6	248.3	1.0E-07	Page 1-14 of SSFL_GRP2_RFI_Text.pdf	ASNSR1	
2, 3, 7, 8 - TCDD	6.5E-04	Group 3, Building 204	4	143.9	9.4E-08	Page 1-18 of SSFL_GRP3_RFIText.pdf	ASBSR3	

Santa Susana Field Laboratory
Dioxins List

These values are taken from the file "Dioxin TEQ Summary.xlsx". **Use this for HARP**

Group No.	Area	Units	Maximum Detected Concentration	Representative Concentration (mg/kg)	Percent of Maximum
4	Coca	mg/kg	1.8E-05	**1.1E-04**	3%
4	Delta	mg/kg	2.1E-05		3%
4	PLF	mg/kg	1.5E-06		0%
9	Silvernale	mg/kg	2.2E-08		0%
9	Silvernale	mg/kg	3.5E-08		0%
9	Silvernale	mg/kg	2.8E-08		0%
9	CDFF	mg/kg	3.0E-05		5%
9	CDFF	mg/kg	4.9E-05		8%
9	CDFF	mg/kg	2.7E-05		4%
3	Building 204	mg/kg	6.5E-04		100%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	4.7E-07		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	3.8E-05		6%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	1.1E-04		16%
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	2.8E-06		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
DOE	3	mg/kg	3.5E-06		1%
DOE	5A	mg/kg	7.1E-06		1%
DOE	5B	mg/kg	6.3E-06		1%
DOE	5C	mg/kg	6.7E-06		1%
DOE	5D	mg/kg	4.4E-06		1%
DOE	6	mg/kg	1.5E-05		2%
DOE	7	mg/kg	6.5E-06		1%
DOE	8	mg/kg	1.8E-06		0%
DOE	NBZ	mg/kg	3.0E-06		0%
2	Area II	mg/kg	5.9E-06		1%
2	Area II	mg/kg	1.6E-05		3%
2	Area II	mg/kg	1.4E-05		2%
2	Ash Pile	mg/kg	4.1E-06		1%
2	Ash Pile	mg/kg	4.0E-06		1%
2	Ash Pile	mg/kg	4.9E-06		1%
2	LOX	mg/kg	2.0E-06		0%
2	LOX	mg/kg	2.0E-06		0%
2	LOX	mg/kg	1.3E-06		0%
2	ELV	mg/kg	2.6E-04		39%
2	ELV	mg/kg	3.8E-04		58%
2	ELV	mg/kg	4.2E-04		64%

Santa Susana Field Laboratory
Health Table - Unmitigated

Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_8HR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
108171262	Chlorinated paraffins (average chain length, C12; approx. 60% Cl by weight)	ChlorParaffins	0.089						FALSE	1
86220420	Nafarelin acetate	Nafarelin Aceta							FALSE	1
77501634	Lactofen	Lactofen							FALSE	1
76180966	IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	IQ							FALSE	1
74472370	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	PCB 114	3.9	3.9	1.3	0.00033			TRUE	1
72918219	1,2,3,7,8,9-Hexachlorodibenzofuran	1-3,7-9HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
70648269	1,2,3,4,7,8-Hexachlorodibenzofuran	1-4,7,8HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
70476823	Mitoxantrone hydrochloride	MitoxantroneHCl							FALSE	1
70362504	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	PCB 81	39	39	0.13	3.30E-05			TRUE	1
69782907	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	PCB 157	3.9	3.9	1.3	0.00033			TRUE	1
68006837	2-Amino-3-methyl-9H-pyrido[2,3-b] indole (MeA-alpha-C)	MeA-alpha-C							FALSE	1
67730114	Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole)	Glu-P-1							FALSE	1
67730103	Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	Glu-P-2							FALSE	1
67562394	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1-4,6-8HpCDF	1300	1300	0.004	1.00E-06			TRUE	1
65510443	2,3',4,4',5'-Pentachlorobiphenyl (PCB 123)	PCB 123	3.9	3.9	1.3	0.00033			TRUE	1
64091914	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	4(N-NiMeAm)Buta							FALSE	1
62476599	Acifluorfen	Acifluorfen							FALSE	1
62450071	Trp-P-2 (3-Amino-1-methyl-5H-pyrido[4,3-b]indole)	Trp-P-2							FALSE	1
62450060	Trp-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)	Trp-P-1							FALSE	1
62015398	Misoprostol	Misoprostol							FALSE	1
60851345	2,3,4,6,7,8-Hexachlorodibenzofuran	2-4,6-8HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
60568050	Furmecyclox	Furmecyclox							FALSE	1
60153493	3-(N-Nitrosomethylamino)propionitrile	3(N-NitMeAm)Prp							FALSE	1
59467968	Midazolam hydrochloride	Midazolam HCl							FALSE	1
57835924	4-Nitropyrene	4-Nitropyrene	0.39	1.2					TRUE	1
57653857	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1-3,6-8HxCDD	13000	13000	0.0004	1.00E-07			TRUE	1
57465288	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	PCB 126	13000	13000	0.0004	1.00E-07			TRUE	1
57117449	1,2,3,6,7,8-Hexachlorodibenzofuran	1-3,6-8HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
57117416	1,2,3,7,8-Pentachlorodibenzofuran	1-3,7,8PeCDF	3900	3900	0.0013	3.30E-07			TRUE	1
57117314	2,3,4,7,8-Pentachlorodibenzofuran	2-4,7,8PeCDF	39000	39000	0.00013	3.30E-08			TRUE	1
56391572	Netilmicin sulfate	NetilmicinSulfa							FALSE	1
55738540	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl-1,3,4-oxadiazol	trans-2DiMAmMIm							FALSE	1
55722275	Total Tetrachlorodibenzofuran	TotalTetraCDF							FALSE	1
55684941	Total Hexachlorodibenzofuran	TotalHexaCDF							FALSE	1
55673897	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1-4,7-9HpCDF	1300	1300	0.004	1.00E-06			TRUE	1
54965241	Tamoxifen citrate	TamoxifenCitrat							FALSE	1
54350480	Etretinate	EtretInate							FALSE	1
53973981	Polygeenan	Polygeenan							FALSE	1
52663726	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	PCB 167	3.9	3.9	1.3	0.00033			TRUE	1
51207319	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	13000	13000	0.0004	1.00E-07			TRUE	1
49842071	Tobramycin sulfate	TobramycinSulfa							FALSE	1
42397659	1,8-Dinitropyrene	1,8-DiNPyrene	3.9	12					TRUE	1
42397648	1,6-Dinitropyrene	1,6-DiNPyrene	39	120					TRUE	1
41903575	Total Tetrachlorodibenzo-p-dioxin	TotalTetraCDD							FALSE	1
41575944	Carboplatin	Carboplatin							FALSE	1
40321764	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1-3,7,8PeCDD	130000	130000	4.00E-05	1.00E-08			TRUE	1
39831555	Amikacin sulfate	AmikacinSulfate							FALSE	1
39635319	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	PCB 189	3.9	3.9	1.3	0.00033			TRUE	1
39300453	Dinocap	Dinocap							FALSE	1
39227286	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1-4,7,8HxCDD	13000	13000	0.0004	1.00E-07			TRUE	1
39156417	2,4-Diaminoanisole sulfate	2,4-DiAmAnisSul							FALSE	1
39001020	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	1-8OctaCDF	39	39	0.13	3.30E-05			TRUE	1
38998753	Total Heptachlorodibenzofuran	TotalHeptaCDF							FALSE	1
38380084	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	PCB 156	3.9	3.9	1.3	0.00033			TRUE	1
37871004	Total Heptachlorodibenzo-p-dioxin	TotalHeptaCDD							FALSE	1
36791045	Ribavirin	Ribavirin							FALSE	1
36088229	Total Pentachlorodibenzo-p-dioxin	TotalPentaCDD							FALSE	1
35822469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1-4,6-8HpCDD	1300	1300	0.004	1.00E-06			TRUE	1
34590948	Dipropylene glycol monomethyl ether	DPGME							FALSE	1
34465468	Total Hexachlorodibenzo-p-dioxin	TotalHexaCDD							FALSE	1
34256821	Acetochlor	Acetochlor							FALSE	1
33419420	Etoposide	Etoposide							FALSE	1
32774166	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	PCB 169	3900	3900	0.0013	3.30E-07			TRUE	1
32598144	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	PCB 105	3.9	3.9	1.3	0.00033			TRUE	1
32598133	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	PCB 77	13	13	0.4	0.0001			TRUE	1
31508006	2,3',4,4',5-Pentachlorobiphenyl	PCB 118	3.9	3.9	1.3	0.00033			TRUE	1
30402154	Total Pentachlorodibenzofuran	TotalPentaCDF							FALSE	1
28981977	Alprazolam	Alprazolam							FALSE	1
28911015	Triazolam	Triazolam							FALSE	1
28434868	3,3'-Dichloro-4,4'-diaminodiphenyl ether	3,3'DiClDAmPhEt							FALSE	1
26995915	Urofollitropin	Urofollitropin							FALSE	1
26471625	Toluene diisocyanates	TolueneDiisocyn	0.039		0.008		0.015	2	FALSE	1
26148685	A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	A-alpha-C							FALSE	1
25551137	Trimethylbenzenes	TriMeBenzns							FALSE	1
25321226	Dichlorobenzenes (mixed isomers)	DiClBenzenes							FALSE	1
25321146	Dinitrotoluenes (mixed isomers)	DiNitroToluenes							FALSE	1
25265718	Dipropylene glycol	DPG							FALSE	1
25167833	Tetrachlorophenols	Tetrachloroph							FALSE	1
25154545	Dinitrobenzenes (mixtures of)	DinitroBenz(mix							FALSE	1
25013165	Butylated hydroxyanisole (BHA)	BHA							FALSE	1
24267569	Iodine-131	Iodine-131							FALSE	1
23541506	Daunorubicin hydrochloride	Daunorubic HCl							FALSE	1
23214928	Adriamycin	Adriamycin							FALSE	1
23092173	Halazepam	Halazepam							FALSE	1
21725462	Cyanazine	Cyanazine							FALSE	1
20830813	Daunomycin	Daunomycin							FALSE	1
20816120	Osmium tetroxide	OsmiumTetraOxid							FALSE	1
20325400	3,3'-Dimethoxybenzidine dihydrochloride	3,3'DiMeBenziHC							FALSE	1
19408743	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1-3,7-9HxCDD	13000	13000	0.0004	1.00E-07			TRUE	1
18883664	Streptozotocin	Streptozotocin							FALSE	1
18662538	Nitrilotriacetic acid, trisodium salt monohydrate	NitrTriAc,tri-s							FALSE	1
18540299	Chromium, hexavalent (& compounds)	Cr(VI)	510	0.5	0.2	0.02			TRUE	1
18378897	Plicamycin	Plicamycin							FALSE	1
17230885	Danazol	Danazol							FALSE	1
16568028	Gyromitrin	Gyromitrin							FALSE	1
16543558	N-Nitrosonornicotine	N-NitrosNornico							FALSE	1
16071866	Direct Brown 95 (technical grade)	DirBrown95	500						FALSE	1
15972608	Alachlor	Alachlor							FALSE	1
15663271	Cisplatin	Cisplatin							FALSE	1

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15475566	Methotrexate sodium	MethotrexateSod							FALSE	1
14901087	Cycasin	Cycasin							FALSE	1
13909096	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl CCNU)	1(2ClEt)MeCCNU							FALSE	1
13765190	Calcium chromate	CalciumChromate	510	0.5	0.2	0.02			TRUE	0.3332
13647353	Trilostane	Trilostane							FALSE	1
13463406	Iron pentacarbonyl	IronPentaCrbnyl							FALSE	1
13463393	Nickel carbonyl	Ni Carbonyl	0.91		0.014	0.011	0.06	0.2	TRUE	0.3438
13311847	Flutamide	Flutamide							FALSE	1
13256229	N-Nitrososarcosine	N-NitrosSarcosi							FALSE	1
13121705	Cyhexatin	Cyhexatin							FALSE	1
13010474	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	1(2Clet)CCNU							FALSE	1
12510428	Erionite	Erionite							FALSE	1
12427382	Maneb	Maneb							FALSE	1
12122677	Zineb	Zineb							FALSE	1
12054487	Nickel hydroxide	Ni Hydroxide	0.91		0.014	0.011	0.06	0.2	TRUE	0.6332
12035722	Nickel subsulfide	Ni Subsulfide	0.91		0.014	0.011	0.06	0.2	TRUE	0.2443
10595956	N-Nitrosomethylethylamine	N-NitrosMEAmine	22						FALSE	1
10588019	Sodium dichromate	SodiumDichromat	510	0.5	0.2	0.02			TRUE	0.397
10294403	Barium chromate	Barium Chromate	510	0.5	0.2	0.02			TRUE	0.2053
10102440	NITROGEN DIOXIDE	NITROGEN DIOXID						470	FALSE	1
10049044	Chlorine dioxide	ChlorineDioxide			0.6				FALSE	1
10048132	Sterigmatocystin	Sterigmatocysti							FALSE	1
10035106	Hydrogen bromide	HydrogBromide							FALSE	1
10034932	Hydrazine sulfate	HydrazineSulfat							FALSE	1
10028156	OZONE	OZONE						180	FALSE	1
10026138	Phosphorus pentachloride	Phos PentaChlor							FALSE	1
10025873	Phosphorus oxychloride	Phos OxyChlorid							FALSE	1
10024972	Nitrous oxide	Nitrogen oxide							FALSE	1
9006422	Metiram	Metiram							FALSE	1
9004664	Iron dextran complex	Iron Dextran Cm							FALSE	1
9002680	Menotropins	Menotropins							FALSE	1
8018017	Mancozeb	Mancozeb							FALSE	1
8014957	Oleum	Oleum						120	FALSE	1
8007452	Coal tars	Coal tars							FALSE	1
8001352	Toxaphene	Toxaphene							FALSE	1
7803512	Phosphine	Phosphine			0.8				FALSE	1
7789302	Bromine pentafluoride	BrominPentFlrid							FALSE	1
7789062	Strontium chromate	StrontiumChrom	510	0.5	0.2	0.02			TRUE	0.2554
7784421	Arsine	Arsine			0.015		0.015	0.2	FALSE	1
7783202	Ammonium sulfate	Ammon Sulfate							FALSE	1
7783075	Hydrogen selenide	HydrogSelenide						5	FALSE	1
7783064	Hydrogen sulfide	H2S			10			42	FALSE	1
7782505	Chlorine	Chlorine			0.2			210	FALSE	1
7782492	Selenium	Selenium			20	0.005			FALSE	1
7758976	Lead chromate	Lead Chromate	510	0.5	0.2	0.02			TRUE	0.1609
7758012	Potassium bromate	Potass Bromate	0.49						FALSE	1
7726956	Bromine	Bromine							FALSE	1
7723140	Phosphorus	Phosphorus							FALSE	1
7719122	Phosphorus trichloride	Phos TriChlorid							FALSE	1
7697372	Nitric acid	Nitric Acid						86	FALSE	1
7664939	Sulfuric acid	Sulfuric Acid			1			120	FALSE	1
7664417	Ammonia	NH3			200			3200	FALSE	1
7664393	Hydrogen fluoride	HF			14	0.04		240	TRUE	1
7664382	Phosphoric acid	Phosphoric Acid			7				FALSE	1
7647010	Hydrochloric acid	HCl			9			2100	FALSE	1
7550450	Titanium tetrachloride	Titanm TetraCl							FALSE	1
7496028	6-Nitrochrysene	6-Nitrochrysene	39	120					TRUE	1
7487947	Mercuric chloride	Mercuric Cl			0.03	0.00016	0.06	0.6	TRUE	1
7446719	Sulfur trioxide	Sulfur trioxide			1			120	FALSE	1
7446346	Selenium sulfide	Se Sulfide			20	0.005			FALSE	1
7446277	Lead phosphate	Lead Phosphate	0.042	0.0085					TRUE	0.7659
7446095	SULFUR DIOXIDE	SULFUR DIOXIDE						660	FALSE	1
7440666	Zinc	Zinc							FALSE	1
7440622	Vanadium (fume or dust)	Vanadium						30	FALSE	1
7440508	Copper	Copper						100	FALSE	1
7440484	Cobalt	Cobalt							FALSE	1
7440473	Chromium	Chromium							FALSE	1
7440439	Cadmium	Cadmium	15		0.02	0.0005			TRUE	1
7440417	Beryllium	Beryllium	8.4		0.007	0.002			TRUE	1
7440393	Barium	Barium							FALSE	1
7440382	Arsenic	Arsenic	12	1.5	0.015	3.50E-06	0.015	0.2	TRUE	1
7440360	Antimony	Antimony							FALSE	1
7440280	Thallium	Thallium							FALSE	1
7440224	Silver	Silver							FALSE	1
7440020	Nickel	Nickel	0.91		0.014	0.011	0.06	0.2	TRUE	1
7439976	Mercury	Mercury			0.03	0.00016	0.06	0.6	TRUE	1
7439965	Manganese	Manganese			0.09		0.17		FALSE	1
7439921	Lead	Lead	0.042	0.0085					TRUE	1
7429905	Aluminum	Aluminum							FALSE	1
6533002	Norgestrel	Norgestrel							FALSE	1
6484522	Ammonium nitrate	Ammon Nitrate							FALSE	1
6358538	Citrus Red No. 2	Citrus Red 2							FALSE	1
6164983	Chlordimeform	Chlordimeform							FALSE	1
6112761	Mercaptopurine	Mercaptopurine							FALSE	1
6109973	3-Amino-9-ethylcarbazole hydrochloride	3-Amino9ECarbz							FALSE	1
5522430	1-Nitropyrene	1-Nitropyrene	0.39	1.2					TRUE	1
5411223	Benzphetamine hydrochloride	Benzphetam HCl							FALSE	1
5216251	p-alpha,alpha,alpha-Tetrachlorotoluene	p-alphaTetClTol							FALSE	1
5160021	D and C Red No. 9	D&C Red 9							FALSE	1
4759482	Isotretinoin	Isotretinoin							FALSE	1
4680788	C. I. Acid Green 3	CI Acid Grn 3							FALSE	1
4549400	N-Nitrosomethylvinylamine	N-NitrosMeVAmin							FALSE	1
4342034	Dacarbazine	Dacarbazine							FALSE	1
4170303	Crotonaldehyde	Crotonaldehyde							FALSE	1
3963959	Methacycline hydrochloride	Methacyclin HCl							FALSE	1
3810740	Streptomycin sulfate	StreptomySulfat							FALSE	1
3778732	Ifosfamide	Ifosfamide							FALSE	1
3771195	Nafenopin	Nafenopin							FALSE	1
3761533	Ponceau MX	Ponceau MX							FALSE	1
3697243	5-Methylchrysene	5-MeChrysene	3.9	12					TRUE	1

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3688537	AF-2	AF-2							FALSE	1
3570750	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	2(2FormHyd)Thia							FALSE	1
3564098	Ponceau 3R	Ponceau 3R							FALSE	1
3546109	Phenesterin	Phenesterin							FALSE	1
3468631	D and C Orange No. 17	D&C Orange 17							FALSE	1
3333673	Nickel carbonate	Ni Carbonate	0.91		0.014	0.011	0.06	0.2	TRUE	0.4945
3268879	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	1-8OctaCDD	39	39	0.13	3.30E-05			TRUE	1
3068880	beta-Butyrolactone	beta-Butyrolact							FALSE	1
2832408	C. I. Disperse Yellow 3	CI DispYellw3							FALSE	1
2807309	Ethylene glycol monopropyl ether	EGPE							FALSE	1
2795393	Perfluorooctanoic acid (PFOA) (and its salts, esters, and sulfonates)	PFOA	0	0	0	0		0	FALSE	1
2784943	HC Blue 1	HC Blue 1							FALSE	1
2646175	Oil Orange SS	Oil Orange SS							FALSE	1
2602462	Direct Blue 6	DirBlue6	500						FALSE	1
2551624	Sulfur hexafluoride	SF6							FALSE	1
2475458	Disperse Blue 1	DisperseBlue1							FALSE	1
2425061	Captafol	Captafol							FALSE	1
2385855	Mirex	Mirex							FALSE	1
2303164	Diallate	Diallate							FALSE	1
2234131	Octachloronaphthalene	OctaClNaphthal							FALSE	1
2164172	Fluometuron	Fluometuron							FALSE	1
2092560	D and C Red No. 8	D&C Red 8							FALSE	1
2068782	Vincristine sulfate	VincristineSulf							FALSE	1
1937377	Direct Black 38	DirBlack38	500						FALSE	1
1897456	Chlorothalonil	Chlorothalonil							FALSE	1
1836755	Nitrofen (technical grade)	Nitrofen(tech)							FALSE	1
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD	130000	130000	4.00E-05	1.00E-08			TRUE	1
1694093	Benzyl violet 4B	BenzylViolet4B							FALSE	1
1689845	Bromoxynil	Bromoxynil							FALSE	1
1634044	Methyl tert-butyl ether	Me t-ButylEther	0.0018		8000				FALSE	1
1620219	Chlorcyclizine hydrochloride	Chlorcycliz HCl							FALSE	1
1615801	1,2-Diethylhydrazine	1,2-DiEthHydraz							FALSE	1
1596845	Daminozide	Daminozide							FALSE	1
1582098	Trifluralin	Trifluralin							FALSE	1
1464535	Diepoxybutane	DiEpoxyButane							FALSE	1
1405103	Neomycin sulfate	NeomycinSulfate							FALSE	1
1344281	Aluminum oxide (fibrous)	Alumin Oxide							FALSE	1
1336363	PCBs (Polychlorinated biphenyls)	PCBs	2	2					TRUE	1
1335871	Hexachloronaphthalene	HexaClNaphthale							FALSE	1
1335326	Lead subacetate	Lead Subacetate	0.042	0.0085					TRUE	0.7696
1333820	Chromium trioxide	ChromiumTriOxid	510	0.5	0.002	0.02			TRUE	0.52
1332214	Asbestos	Asbestos	220						FALSE	333.333
1330207	Xylenes (mixed)	Xylenes			700			22000	FALSE	1
1319773	Cresols (mixtures of) (Cresylic acid)	Cresols			600				FALSE	1
1314621	Vanadium pentoxide	Vanad pentoxd						30	FALSE	1
1314563	Phosphorus pentoxide	Phos Pentoxide							FALSE	1
1314201	Thorium dioxide	ThoriumDioxide							FALSE	1
1314132	Zinc oxide	Zinc Oxide							FALSE	0.8034
1313991	Nickel oxide	Ni Oxide	0.91		0.02	0.011	0.06	0.2	TRUE	0.7859
1313275	Molybdenum trioxide	Molybd TriOxide							FALSE	1
1310732	Sodium hydroxide	Sodium Hydroxid						8	FALSE	1
1309644	Antimony trioxide	Antim TriOxide							FALSE	1
1271289	Nickelocene	Nickelocene	0.91		0.014	0.011	0.06	0.2	TRUE	0.49365
1163195	Decabromodiphenyl oxide	DecaBrDiPhenOx							FALSE	1
1120714	1,3-Propane sultone	1,3-PropSultone	2.4						FALSE	1
1116547	N-Nitrosodiethanolamine	N-NitrosEthnlAm							FALSE	1
1024573	Heptachlor epoxide	HeptachloEpoxid							FALSE	1
989388	C. I. Basic Red 1	CI BasicRed 1							FALSE	1
961115	Tetrachlorvinphos	Tetrachlorvinph							FALSE	1
930552	N-Nitrosopyrrolidine	N-NitrosPyrroli	2.1						FALSE	1
924425	N-Methyloacrylamide	N-MethyloAcryla							FALSE	1
924163	N-Nitrosodi-n-butylamine	N-NitrosDBuAmin	11						FALSE	1
919164	Lithium citrate	LithiumCitrate							FALSE	1
846504	Temazepam	Temazepam							FALSE	1
846491	Lorazepam	Lorazepam							FALSE	1
838880	4,4'-Methylene bis(2-methylaniline)	4,4'MeBis2MeAni							FALSE	1
822060	Hexamethylene-1,6-diisocyanate	HexaMeDiisocyan							FALSE	1
811972	1,1,1,2-Tetrafluoroethane (HFC-134a)	TetraFluorEthan							FALSE	1
794934	Panfuran S	Panfuran S							FALSE	1
765344	Glycidaldehyde	Glycidaldehyde							FALSE	1
764410	1,4-Dichloro-2-butene	1,4-DiCl2Butene							FALSE	1
759739	N-Nitroso-N-ethylurea	N-NitrosNEtUrea							FALSE	1
712685	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	2-Amin(NiFur)Th							FALSE	1
684935	N-Nitroso-N-methylurea	N-NitrosNMeUrea							FALSE	1
680319	Hexamethylphosphoramide	HexaMePhosAmide							FALSE	1
636215	o-Toluidine hydrochloride	o-Toluid HCl							FALSE	1
630933	Diphenylhydantoin	DiPhenylHydant							FALSE	1
630080	Carbon monoxide	Carbon Monoxide						23000	FALSE	1
629141	Ethylene glycol diethyl ether	EGDEE							FALSE	1
624839	Methyl isocyanate	Methyl Isocyana			1				FALSE	1
621647	N-Nitrosodi-n-propylamine	N-NitrosDPrAmin	7						FALSE	1
615532	N-Nitroso-N-methylurethane	N-NitrosMUretha							FALSE	1
615054	2,4-Diaminoanisole	2,4-DiAminAniso	0.023						FALSE	1
613354	N,N'-Diacetylbenzidine	NN'DiAceBenzdin							FALSE	1
608731	Hexachlorocyclohexanes (mixed or technical grade)	HexClCycHexanes	4	4					TRUE	1
607578	2-Nitrofluorene	2-Nitrofluorene	0.039	0.12					TRUE	1
606202	2,6-Dinitrotoluene	2,6-DiNitToluen							FALSE	1
602879	5-Nitroacenaphthene	5-NitroaceNapht	0.13	0.13					TRUE	1
595335	Megestrol acetate	Megestrol Aceta							FALSE	1
593748	Methyl mercury	Methyl Mercury							FALSE	1
593602	Vinyl bromide	Vinyl Bromide							FALSE	1
592621	Methylazoxymethanol acetate	MeAzoMethnlAcet							FALSE	1
590965	Methylazoxymethanol	MeAzoMethnl							FALSE	1
584849	Toluene-2,4-diisocyanate	T-2,4-diisocyan	0.039		0.008		0.015	2	FALSE	1
569642	C. I. Basic Green 4	CI BasicGrn 4							FALSE	1
569619	C. I. Basic Red 9 monohydrochloride	CI BasicRed 9							FALSE	1
564250	Doxycycline	Doxycycline							FALSE	1
563473	3-Chloro-2-methylpropene	3-Cl-2MePropene							FALSE	1
556525	Glycidol	Glycidol							FALSE	1
555840	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone	1(5NiFur)Idinon							FALSE	1

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Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
554132	Lithium carbonate	LithiumCarbonat							FALSE	1
546883	Acetohydroxamic acid	AcetohydrxAcid							FALSE	1
542881	Bis(chloromethyl) ether	Bis(ClMe)Ether	46						FALSE	1
542756	1,3-Dichloropropene	1,3-DiClPropene							FALSE	1
541731	1,3-Dichlorobenzene	1,3-DiClBenzene							FALSE	1
541413	Ethyl chloroformate	Ethyl ClFormate							FALSE	1
540885	t-Butyl acetate	t-Butyl acetate	0	0	0	0		0	FALSE	1
540841	2,2,4-Trimethylpentane	2,2,4TriMePentn							FALSE	1
540738	1,2-Dimethylhydrazine	1,2-DiMeHydrazi							FALSE	1
540590	1,2-Dichloroethylene	1,2-DiClEthylen							FALSE	1
534521	4,6-Dinitro-o-cresol (and salts)	4,6-DiNiCresol							FALSE	1
532274	2-Chloroacetophenone	2-ClAcetPhenone							FALSE	1
531828	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	NNiFurylThiazAc							FALSE	1
531760	Merphalan	Merphalan							FALSE	1
528290	o-Dinitrobenzene	o-DinitroBenzen							FALSE	1
513371	Dimethylvinylchloride (DMVC)	DiMeVinylCl							FALSE	1
512561	Trimethyl phosphate	TriMethylPhosph							FALSE	1
510156	Chlorobenzilate	Chlorobenzilate							FALSE	1
509148	Tetranitromethane	TetraNitroMetha							FALSE	1
505602	Mustard gas	Mustard gas							FALSE	1
494031	N-N-Bis(2-chloroethyl)-2-naphthylamine (Chlornaphazine)	NNBisChlNaph							FALSE	1
492808	Auramine	Auramine							FALSE	1
484208	5-Methoxypsoralen	5-MethoxPsoral							FALSE	1
474259	Chenodiol	Chenodiol							FALSE	1
463581	Carbonyl sulfide	CarbonylSulfide							FALSE	1
446866	Azathioprine	Azathioprine							FALSE	1
443481	Metronidazole	Metronidazole							FALSE	1
434071	Oxymetholone	Oxymetholone							FALSE	1
379793	Ergotamine tartrate	ErgotamineTartr							FALSE	1
373024	Nickel acetate	Ni Acetate	0.91		0.014	0.011	0.06	0.2	TRUE	0.3321
366701	Procarbazine hydrochloride	ProcarbazinHCl							FALSE	1
334883	Diazomethane	Diazomethane							FALSE	1
319857	beta-Hexachlorocyclohexane	betaHexClCycHx	4	4					TRUE	1
319846	alpha-Hexachlorocyclohexane	alphaHexClCycHx	4	4					TRUE	1
315377	Testosterone enanthate	TestosteronEnan							FALSE	1
315220	Monocrotaline	Monocrotaline							FALSE	1
309002	Aldrin	Aldrin							FALSE	1
305033	Chlorambucil	Chlorambucil							FALSE	1
303479	Ochratoxin A	Ochratoxin A							FALSE	1
303344	Lasiocarpine	Lasiocarpine							FALSE	1
302794	all-trans-Retinoic acid	all-transRetinA							FALSE	1
302705	Nitrogen mustard N-oxide	NitrMustardN-Ox							FALSE	1
302012	Hydrazine	Hydrazine	17		0.2				FALSE	1
301042	Lead acetate	Lead Acetate	0.042	0.0085					TRUE	0.637
299752	Treosulfan	Treosulfan							FALSE	1
271896	Benzofuran	Benzofuran							FALSE	1
226368	Dibenz[a,h]acridine	D[a,h]acridine	0.39	1.2					TRUE	1
224420	Dibenz[a,j]acridine	D[a,j]acridine	0.39	1.2					TRUE	1
218019	Chrysene	Chrysene	0.039	0.12					TRUE	1
208968	Acenaphthylene	Acenaphthylene							FALSE	1
207089	Benzo[k]fluoranthene	B[k]fluoranthen	0.39	1.2					TRUE	1
206440	Fluoranthene	Fluoranthene							FALSE	1
205992	Benzo[b]fluoranthene	B[b]fluoranthen	0.39	1.2					TRUE	1
205823	Benzo[j]fluoranthene	B[j]fluoranthen	0.39	1.2					TRUE	1
198550	Perylene	Perylene							FALSE	1
194592	7H-Dibenzo[c,g]carbazole	7H-D[c,g]carb	3.9	12					TRUE	1
193395	Indeno[1,2,3-cd]pyrene	In[1,2,3-cd]pyr	0.39	1.2					TRUE	1
192972	Benzo[e]pyrene	B[e]pyrene							FALSE	1
192654	Dibenzo[a,e]pyrene	D[a,e]pyrene	3.9	12					TRUE	1
191300	Dibenzo[a,l]pyrene	D[a,l]pyrene	39	120					TRUE	1
191242	Benzo[g,h,i]perylene	B[g,h,i]perylen							FALSE	1
189640	Dibenzo[a,h]pyrene	D[a,h]pyrene	39	120					TRUE	1
189559	Dibenzo[a,i]pyrene	D[a,i]pyrene	39	120					TRUE	1
156627	Calcium cyanamide	CalciumCyanamid							FALSE	1
156105	p-Nitrosodiphenylamine	p-NitrosDiPhAmn	0.022						FALSE	1
154938	Bischloroethyl nitrosourea	BisClEthNitUrea							FALSE	1
154427	Thioguanine	Thioguanine							FALSE	1
151564	Ethyleneimine (Aziridine)	Ethyleneimine							FALSE	1
148823	Melphalan	Melphalan							FALSE	1
147944	Cytarabine	Cytarabine							FALSE	1
143679	Vinblastine sulfate	VinblastineSulf							FALSE	1
143500	Chlordecone (Kepone)	Chlordecone							FALSE	1
141322	Butyl acrylate	Butyl Acrylate							FALSE	1
140885	Ethyl acrylate	Ethyl Acrylate							FALSE	1
140578	Aramite	Aramite							FALSE	1
139913	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone	5-MorphMeNiFur							FALSE	1
139651	4,4'-Thiodianiline	4,4'Thiodianili							FALSE	1
139139	Nitrilotriacetic acid	NitrilTriAc Aci							FALSE	1
135206	Cupferron	Cupferron	0.22						FALSE	1
134327	1-Naphthylamine	1-NaphthylAmine							FALSE	1
134292	o-Anisidine hydrochloride	o-Anisidine HCl							FALSE	1
133904	Chloramben	Chloramben							FALSE	1
133073	Folpet	Folpet							FALSE	1
133062	Captan	Captan							FALSE	1
132649	Dibenzofuran	Dibenzofuran							FALSE	1
132274	Sodium o-phenylphenate	Sodium o-PhPhen							FALSE	1
131113	Dimethyl phthalate	DimethylPhthala							FALSE	1
129157	2-Methyl-1-nitroanthraquinone (uncertain purity)	2-MeNitAnthrqn							FALSE	1
129000	Pyrene	Pyrene							FALSE	1
128449	Sodium saccharin	SodiumSaccharin							FALSE	1
127480	Trimethadione	Trimethadione							FALSE	1
127184	Perchloroethylene (Tetrachloroethene)	Perc	0.021		35			20000	FALSE	1
126998	Chloroprene	Chloroprene							FALSE	1
126738	Tributyl phosphate	TriButylPhospha							FALSE	1
126727	Tris(2,3-dibromopropyl)phosphate	Tris(DiBrPrl)Pho							FALSE	1
126078	Griseofulvin	Griseofulvin							FALSE	1
125848	Aminoglutethimide	Aminoglutethimi							FALSE	1
124481	Chlorodibromomethane	ChloroDiBrMetha							FALSE	1
124389	Carbon dioxide	CO2							FALSE	1
123911	1,4-Dioxane	1,4-Dioxane	0.027		3000			3000	FALSE	1

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123728	Butyraldehyde	Butyraldehyde							FALSE	1
123386	Propionaldehyde	Propionaldehyde							FALSE	1
123319	Hydroquinone	Hydroquinone							FALSE	1
122667	1,2-Diphenylhydrazine {Hydrazobenzene}	1,2-DiPhenylHydr							FALSE	1
122601	Phenyl glycidyl ether	PhenylGlycEther							FALSE	1
121697	N,N-Dimethylaniline	N,N-DiMeAniline							FALSE	1
121448	Triethylamine	Triethylamine			200			2800	FALSE	1
121142	2,4-Dinitrotoluene	2,4-DiNitToluen	0.31						FALSE	1
120832	2,4-Dichlorophenol	2,4-DiClPhenol							FALSE	1
120821	1,2,4-Trichlorobenzene	1,2,4TriClBenz							FALSE	1
120809	Catechol	Catechol							FALSE	1
120718	p-Cresidine	p-Cresidine	0.15						FALSE	1
120581	Isosafrole	Isosafrole							FALSE	1
120127	Anthracene	Anthracene							FALSE	1
119937	3,3'-Dimethylbenzidine {o-Tolidine}	3,3'DiMeBenzidn							FALSE	1
119904	3,3'-Dimethoxybenzidine	3,3'DMethoxBnz							FALSE	1
118741	Hexachlorobenzene	HexaClBenzene	1.8						FALSE	1
117840	n-Dioctyl phthalate	n-DiOctylPhthal							FALSE	1
117817	Di(2-ethylhexyl) phthalate	Di2-EthHxPhthal	0.0084	0.0084					TRUE	1
117793	2-Aminoanthraquinone	2-Aminoanthrqn	0.033						FALSE	1
115866	Triphenyl phosphate	TriPhPhosphate							FALSE	1
115673	Paramethadione	Paramethadione							FALSE	1
115322	Dicofol	Dicofol							FALSE	1
115286	Chlorendic acid	Chlorendic Acid							FALSE	1
115071	Propylene	Propylene			3000				FALSE	1
115026	Azaserine	Azaserine							FALSE	1
114261	Propoxur	Propoxur							FALSE	1
112492	Triethylene glycol dimethyl ether	TEGDME							FALSE	1
112345	Diethylene glycol monobutyl ether	DEGBE							FALSE	1
111966	Diethylene glycol dimethyl ether	DEGDME							FALSE	1
111900	Diethylene glycol monoethyl ether	DEGEE							FALSE	1
111773	Diethylene glycol monomethyl ether	DEGME							FALSE	1
111762	Ethylene glycol monobutyl ether	EGBE						14000	FALSE	1
111466	Diethylene glycol	DEGlycol							FALSE	1
111444	Bis(2-chloroethyl) ether {DCEE}	Bis(2ClEth)Ethr	2.5						FALSE	1
111422	Diethanolamine	Diethanolamine			3				FALSE	1
111308	Glutaraldehyde	Glutaraldhyd			0.08				FALSE	1
111159	Ethylene glycol monoethyl ether acetate	EGEEA			300			140	FALSE	1
110861	Pyridine	Pyridine							FALSE	1
110827	Cyclohexane	Cyclohexane							FALSE	1
110805	Ethylene glycol monoethyl ether	EGEE			70			370	FALSE	1
110714	Ethylene glycol dimethyl ether	EGDME							FALSE	1
110543	Hexane	Hexane			7000				FALSE	1
110496	Ethylene glycol monomethyl ether acetate	EGMEA			90				FALSE	1
110009	Furan	Furan							FALSE	1
109864	Ethylene glycol monomethyl ether	EGME			60			93	FALSE	1
109068	2-Methylpyridine	2MethylPyridine							FALSE	1
108952	Phenol	Phenol			200			5800	FALSE	1
108930	Cyclohexanol	Cyclohexanol							FALSE	1
108907	Chlorobenzene	Chlorobenzn			1000				FALSE	1
108883	Toluene	Toluene			300			37000	FALSE	1
108656	Propylene glycol monomethyl ether acetate	PGMEA							FALSE	1
108601	Bis(2-chloro-1-methylethyl) ether	Bis(2ClMeE)Ethr							FALSE	1
108394	m-Cresol	m-Cresol			600				FALSE	1
108383	m-Xylene	m-Xylene			700			22000	FALSE	1
108316	Maleic anhydride	Maleic Anhydrid			0.7				FALSE	1
108101	Methyl isobutyl ketone {Hexone}	MIBK							FALSE	1
108054	Vinyl acetate	Vinyl Acetate			200				FALSE	1
107982	Propylene glycol monomethyl ether	PGME			7000				FALSE	1
107302	Chloromethyl methyl ether (technical grade)	ClMeMethEther							FALSE	1
107211	Ethylene glycol	Ethylene Glycol			400				FALSE	1
107186	Allyl alcohol	Allyl Alcohol							FALSE	1
107131	Acrylonitrile	Acrylonitrile	1		5				FALSE	1
107062	Ethylene dichloride {EDC}	EDC	0.072		400				FALSE	1
107051	Allyl chloride	AllylChlor	0.021						FALSE	1
107028	Acrolein	Acrolein			0.35		0.7	2.5	FALSE	1
106990	1,3-Butadiene	1,3-Butadiene	0.6		2		9	660	FALSE	1
106934	Ethylene dibromide {EDB}	EDB	0.25		0.8				FALSE	1
106898	Epichlorohydrin	Epichlorohydrin	0.08		3			1300	FALSE	1
106887	1,2-Epoxybutane	1,2-EpoxyButane			20				FALSE	1
106876	4-Vinyl-1-cyclohexene diepoxide	4VinylCyclHxEpx							FALSE	1
106514	Quinone	Quinone							FALSE	1
106503	p-Phenylenediamine	p-Phenylenediam							FALSE	1
106490	p-Toluidine	p-Toluidine							FALSE	1
106478	p-Chloroaniline	p-Chloroaniline							FALSE	1
106467	p-Dichlorobenzene	p-DiClBenzene	0.04		800				FALSE	1
106445	p-Cresol	p-Cresol			600				FALSE	1
106423	p-Xylene	p-Xylene			700			22000	FALSE	1
105679	2,4-Dimethylphenol {2,4-Xylenol}	2,4-DiMePhenol							FALSE	1
105602	Caprolactam	Caprolactam			2.2		7	50	FALSE	1
104949	p-Anisidine	p-Anisidine							FALSE	1
103333	Azobenzene	Azobenzene							FALSE	1
103231	Bis(2-ethylhexyl) adipate	Bis(2EHx)Adipat							FALSE	1
101906	Diglycidyl resorcinol ether {DGRE}	DGRE							FALSE	1
101804	4,4'-Diaminodiphenyl ether	4,4DiAminPhEthr							FALSE	1
101779	4,4'-Methylenedianiline (and its dichloride)	4,4'-MeDianilin	1.6	1.6	20				TRUE	1
101688	Methylene diphenyl diisocyanate (MDI)	MeDiphenDiisocy			0.08		0.16	12	FALSE	1
101611	4,4'-Methylene bis (N,N-dimethyl) benzenamine	4,4'MeBisBenzAm							FALSE	1
101144	4-4-Methylene bis(2-chloroaniline) {MOCA}	MOCA: 4,4'MeBis	1.5						FALSE	1
101020	Triphenyl phosphite	TriPhPhosphite							FALSE	1
100754	N-Nitrosopiperidine	N-NitrosPiperid	9.4						FALSE	1
100447	Benzyl chloride	Benzyl Chloride	0.17					240	FALSE	1
100425	Styrene	Styrene			900			21000	FALSE	1
100414	Ethyl benzene	Ethyl Benzene	0.0087		2000				FALSE	1
100403	4-Vinylcyclohexene	4VinylCyclohex							FALSE	1
100254	p-Dinitrobenzene	p-DinitroBenzen							FALSE	1
100210	Terephthalic acid	Terephthalic Ac							FALSE	1
100027	4-Nitrophenol	4-Nitrophenol							FALSE	1
99661	Valproate	Valproate							FALSE	1
99650	m-Dinitrobenzene	m-DinitroBenzen							FALSE	1

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99592	5-Nitro-o-anisidine	5-Nitr-o-Anisid							FALSE	1
98953	Nitrobenzene	Nitrobenzene							FALSE	1
98884	Benzoyl chloride	Benzoyl Chlorid							FALSE	1
98873	Benzal chloride	Benzal chloride							FALSE	1
98862	Acetophenone	Acetophenone							FALSE	1
98828	Cumene	Cumene							FALSE	1
98077	Benzoic trichloride	Benzoic TriCl							FALSE	1
97563	o-Aminoazotoluene	o-Aminoazotolue							FALSE	1
96457	Ethylene thiourea	EthylenThiourea	0.045						FALSE	1
96333	Methyl acrylate	Methyl Acrylate							FALSE	1
96184	1,2,3-Trichloropropane	1,2,3TriClPropn							FALSE	1
96139	2,3-Dibromo-1-propanol	2,3DiBr1Propnol							FALSE	1
96128	1,2-Dibromo-3-chloropropane	DBCP	7						FALSE	1
96093	Styrene oxide	Styrene Oxide							FALSE	1
95954	2,4,5-Trichlorophenol	2,4,5TriClPhenl							FALSE	1
95830	4-Chloro-o-phenylenediamine	4-ClPhenDiamine	0.016						FALSE	1
95807	2,4-Diaminotoluene	2,4-DiAminTolue	4						FALSE	1
95692	p-Chloro-o-toluidine	pCl-Toluidine	0.27						FALSE	1
95636	1,2,4-Trimethylbenzene	1,2,4TriMeBenze							FALSE	1
95578	2-Chlorophenol	2-Chlorophenol							FALSE	1
95534	o-Toluidine	o-Toluidine							FALSE	1
95501	1,2-Dichlorobenzene	1,2-DiClBenzene							FALSE	1
95487	o-Cresol	o-Cresol			600				FALSE	1
95476	o-Xylene	o-Xylene			700			22000	FALSE	1
95067	Sulfallate	Sulfallate							FALSE	1
94780	Phenazopyridine hydrochloride	PhenazoPyri HCl							FALSE	1
94757	Dichlorophenoxyacetic acid, salts and esters (2,4-D)	2,4-D							FALSE	1
94597	Safrole	Safrole							FALSE	1
94586	Dihydrosafrole	Dihydrosafrole							FALSE	1
94360	Benzoyl peroxide	Benzoyl Peroxid							FALSE	1
92933	4-Nitrobiphenyl	4-Nitrobiphenyl							FALSE	1
92875	Benzidine (and its salts)	Benzidine	500						FALSE	1
92671	4-Aminobiphenyl	4-Aminobiphenyl							FALSE	1
92524	Biphenyl	Biphenyl							FALSE	1
91941	3,3'-Dichlorobenzidine	3,3'DiClBenzidn	1.2						FALSE	1
91598	2-Naphthylamine	2-NaphthylAmine							FALSE	1
91576	2-Methyl naphthalene	2MeNaphthalene							FALSE	1
91225	Quinoline	Quinoline							FALSE	1
91203	Naphthalene	Naphthalene	0.12		9				FALSE	1
91087	Toluene-2,6-diisocyanate	T-2,6-diisocyan	0.039		0.008		0.015	2	FALSE	1
90948	Michler's ketone	Michler'sKetone	0.86						FALSE	1
90437	2-Phenylphenol	2-Phenylphenol							FALSE	1
90040	o-Anisidine	o-Anisidine							FALSE	1
88891	Picric acid	Picric Acid							FALSE	1
88857	Dinoseb	Dinoseb							FALSE	1
88755	2-Nitrophenol	2-NitroPhenol							FALSE	1
88101	Particulate Matter 2.5 Microns or Less	PM25							FALSE	1
88062	2,4,6-Trichlorophenol	2,4,6TriClPhenl	0.07						FALSE	1
87865	Pentachlorophenol	PCP	0.018						FALSE	1
87683	Hexachlorobutadiene	HexaClButadiene							FALSE	1
87627	2,6-Xylidene	2,6-Xylidene							FALSE	1
87296	Cinnamyl anthranilate	CinnamylAnthran							FALSE	1
86737	Fluorene	Fluorene							FALSE	1
86306	N-Nitrosodiphenylamine	N-NitrosDiPhAmi	0.009						FALSE	1
85687	Butyl benzyl phthalate	ButylBenzPhthal							FALSE	1
85449	Phthalic anhydride	Phthalic Anhydr			20				FALSE	1
85101	Particulate Matter 10 Microns or Less	PM10							FALSE	1
85018	Phenanthrene	Phenanthrene							FALSE	1
84742	Dibutyl phthalate	DiButyl Phthal							FALSE	1
84662	Diethyl phthalate	DiethylPhthalat							FALSE	1
84173	Dienestrol	Dienestrol							FALSE	1
83329	Acenaphthene	Acenaphthene							FALSE	1
82688	Pentachloronitrobenzene (Quintobenzene)	PentaClNitrBenz							FALSE	1
82280	1-Amino-2-methylanthraquinone	1-AminMeAnthrqn							FALSE	1
81889	D and C Red No. 19	D&C Red 19							FALSE	1
81812	Warfarin	Warfarin							FALSE	1
81072	Saccharin	Saccharin							FALSE	1
80626	Methyl methacrylate	Methyl Methacry							FALSE	1
80159	Cumene hydroperoxide	Cumene HydPerOx							FALSE	1
80057	4,4'-Isopropylidenediphenol	4,4'IsoprDiPhen							FALSE	1
79572	Oxytetracycline	Oxytetracycline							FALSE	1
79469	2-Nitropropane	2-Nitropropane							FALSE	1
79447	Dimethyl carbamoyl chloride	DiMeCarbamyCl							FALSE	1
79345	1,1,2,2-Tetrachloroethane	TetraClEthane	0.2						FALSE	1
79210	Peracetic acid	Peracetic Acid							FALSE	1
79118	Chloroacetic acid	Chloroacet Acid							FALSE	1
79107	Acrylic acid	Acrylic acid						6000	FALSE	1
79061	Acrylamide	Acrylamide	4.5						FALSE	1
79016	Trichloroethylene	TCE	0.007		600				FALSE	1
79005	1,1,2-Trichloroethane	1,1,2TriClEthan	0.057						FALSE	1
78933	Methyl ethyl ketone (2-Butanone)	MEK						13000	FALSE	1
78922	sec-Butyl alcohol	sec-Butyl Alcoh							FALSE	1
78886	2,3-Dichloropropene	2,3-DiClPropene							FALSE	1
78875	1,2-Dichloropropane	1,2-DiClPropane							FALSE	1
78842	Isobutyraldehyde	Isobutyraldehyd							FALSE	1
78795	Isoprene, except from vegetative emission sources	Isoprene							FALSE	1
78591	Isophorone	Isophorone			2000				FALSE	1
78400	Triethyl phosphine	TriEthylPhosphn							FALSE	1
78308	Triorthocresyl phosphate	TriOrthCresPhos							FALSE	1
77781	Dimethyl sulfate	DiMeSulfate							FALSE	1
77474	Hexachlorocyclopentadiene	HexClCycPentadi							FALSE	1
76448	Heptachlor	Heptachlor							FALSE	1
76437	Fluoxymesterone	Fluoxymesterone							FALSE	1
76131	Chlorinated Fluorocarbon (CFC-113) (1,1,2-Trichloro-1,2,2-trifluoroethane)	CFC-113							FALSE	1
76062	Chloropicrin	Chloropicrin			0.4			29	FALSE	1
75865	2-Methyllactonitrile (Acetone cyanohydrin)	2MeLacotnitrile							FALSE	1
75730	Carbon tetrafluoride	Carbon Tetraflu							FALSE	1
75718	Dichlorodifluoromethane (Freon 12)	DiClDiFlmethane							FALSE	1
75694	Trichlorofluoromethane (Freon 11)	TriClFluorMetha							FALSE	1
75650	tert-Butyl alcohol	t-Butyl Alcohol							FALSE	1

Santa Susana Field Laboratory
Health Table - Unmitigated

Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
75569	Propylene oxide	Propylene Oxide	0.013		30			3100	FALSE	1
75558	2-Methylaziridine {1,2-Propyleneimine}	2-MeAziridine							FALSE	1
75467	Trifluoromethane (Freon 23)	TriFluoroMethan							FALSE	1
75456	Chlorodifluoromethane (Freon 22)	ClDiFluorMethan							FALSE	1
75445	Phosgene	Phosgene						4	FALSE	1
75434	Dichlorofluoromethane (Freon 21)	DiClFluorMethan							FALSE	1
75376	1,1-Difluoroethane (Freon 152a)	DiFluoroEthane							FALSE	1
75354	Vinylidene chloride	Vinylid Chlorid			70				FALSE	1
75343	1,1-Dichloroethane	1,1-DiClEthane	0.0057						FALSE	1
75274	Bromodichloromethane	BromoDiClMethan							FALSE	1
75252	Bromoform	Bromoform							FALSE	1
75218	Ethylene oxide	EtO	0.31		30				FALSE	1
75150	Carbon disulfide	CS2			800			6200	FALSE	1
75092	Methylene chloride (Dichloromethane)	Methylene Chlor	0.0035		400			14000	FALSE	1
75070	Acetaldehyde	Acetaldehyde	0.01		140		300	470	FALSE	1
75058	Acetonitrile	Acetonitrile							FALSE	1
75025	Vinyl fluoride	VinylFluoride							FALSE	1
75014	Vinyl chloride	Vinyl Chloride	0.27					180000	FALSE	1
75003	Ethyl chloride (Chlorethane)	Ethyl Chloride			30000				FALSE	1
74953	Methylene bromide	MethyleneBromid							FALSE	1
74908	Hydrocyanic acid	HCN			9			340	FALSE	1
74884	Methyl iodide (Iodomethane)	Methyl Iodide							FALSE	1
74873	Methyl chloride (Chloromethane)	Methyl Chloride							FALSE	1
74851	Ethylene	Ethylene							FALSE	1
74839	Methyl bromide (Bromomethane)	Methyl Bromide			5			3900	FALSE	1
74828	Methane	CH4							FALSE	1
72571	Trypan blue	Trypan blue							FALSE	1
72559	Dichlorodiphenyldichloroethylene (DDE)	DiClDiPhEthylen							FALSE	1
72548	Dichlorodiphenyldichloroethane (DDD)	DDD							FALSE	1
72435	Methoxychlor	Methoxychlor							FALSE	1
72333	Mestranol	Mestranol							FALSE	1
71589	Medroxyprogesterone acetate	Medroxypro acet							FALSE	1
71556	Methyl chloroform (1,1,1-Trichloroethane)	1,1,1-TCA			1000			68000	FALSE	1
71432	Benzene	Benzene	0.1		3		3	27	FALSE	1
71363	n-Butyl alcohol	n-Butyl Alcohol							FALSE	1
70257	N-Methyl-N'-nitro-N-nitrosoguanidine	N-Me-NitrGuanid							FALSE	1
68768	Tris[aziridinyl]-p-benzoquinone	TrisAzirQuinone							FALSE	1
68224	Norethisterone	Norethisterone							FALSE	1
68122	Dimethyl formamide	DMF			80				FALSE	1
67721	Hexachloroethane	HexaClEthane							FALSE	1
67663	Chloroform	Chloroform	0.019		300			150	FALSE	1
67641	[D] Acetone [Deleted/Obsolete Emittent ID]	[D] Acetone							FALSE	1
67630	Isopropyl alcohol	Isopropyl Alcoh			7000			3200	FALSE	1
67561	Methanol	Methanol			4000			28000	FALSE	1
67458	Furazolidone	Furazolidone							FALSE	1
67209	Nitrofurantoin	Nitrofurantoin							FALSE	1
66819	Cycloheximide	Cycloheximide							FALSE	1
66751	Uracil mustard	Uracil Mustard							FALSE	1
66273	Methyl methanesulfonate	MeMethSulfonate							FALSE	1
64755	Tetracycline hydrochloride	TetracyclineHCl							FALSE	1
64675	Diethyl sulfate	DiethylSulfate							FALSE	1
63989	Phenacemide	Phenacemide							FALSE	1
63923	Phenoxybenzimide hydrochloride	PhenoxBenzamHCl							FALSE	1
63252	Carbaryl	Carbaryl							FALSE	1
62759	N-Nitrosodimethylamine	N-NitrosDMA	16						FALSE	1
62737	Dichlorovos (DDVP)	Dichlorovos							FALSE	1
62566	Thiourea	Thiourea							FALSE	1
62555	Thioacetamide	Thioacetamide	6.1						FALSE	1
62533	Aniline	Aniline	0.0057						FALSE	1
62500	Ethyl methanesulfonate	EthMeSulfonate							FALSE	1
62442	Phenacetin	Phenacetin							FALSE	1
61825	Amitrole	Amitrole							FALSE	1
61574	Niridazole	Niridazole							FALSE	1
60571	Dieldrin	Dieldrin							FALSE	1
60560	Methimazole	Methimazole							FALSE	1
60355	Acetamide	Acetamide	0.07						FALSE	1
60344	Methyl hydrazine	Methyl Hydrazin							FALSE	1
60117	4-Dimethylaminoazobenzene	4-DiMeAmAzoBnz	4.6						FALSE	1
60093	p-Aminoazobenzene	p-Aminoazobenz							FALSE	1
59961	Phenoxybenzamine	PhenoxyBenzamin							FALSE	1
59892	N-Nitrosomorpholine	N-NitrosMorphol	6.7						FALSE	1
59870	Nitrofurazone	Nitrofurazone							FALSE	1
59052	Methotrexate	Methotrexate							FALSE	1
58902	2,3,4,6-Tetrachlorophenol	2,3,4,6TetrClPh							FALSE	1
58899	Lindane (gamma-Hexachlorocyclohexane)	Lindane	1.1	1.1					TRUE	1
58220	Testosterone and its esters	Testosteron&Est							FALSE	1
58184	Methyltestosterone	Methyltestoster							FALSE	1
57976	7,12-Dimethylbenz[a]anthracene	7,12-DiB[a]anthr	250	250					TRUE	1
57830	Progesterone	Progesterone							FALSE	1
57749	Chlordane	Chlordane							FALSE	1
57636	Ethinyl estradiol	EthinylEstrdiol							FALSE	1
57578	beta-Propiolactone	beta-Propiolact							FALSE	1
57410	Phenytoin	Phenytoin							FALSE	1
57330	Pentobarbital sodium	PentobarbSodium							FALSE	1
57147	1,1-Dimethylhydrazine	1,1-DiMeHydrzn							FALSE	1
57125	Cyanide compounds (inorganic)	Cyanide cmpds			9			340	FALSE	1
56757	Chloramphenicol	Chloramphcl							FALSE	1
56553	Benz[a]anthracene	B[a]anthracene	0.39	1.2					TRUE	1
56531	Diethylstilbestrol	DES							FALSE	1
56495	3-Methylcholanthrene	3-MeCholanthren	22	22					TRUE	1
56382	Parathion	Parathion							FALSE	1
56235	Carbon tetrachloride	CCl4	0.15		40			1900	FALSE	1
56042	Methylthiouracil	MeThioUracil							FALSE	1
55981	1,4-Butanediol dimethanesulfonate	ButanDiol MeSul							FALSE	1
55867	Nitrogen mustard hydrochloride	NitrMustardHCl							FALSE	1
55630	Nitroglycerin	Nitroglycerin							FALSE	1
55210	Benzamide	Benzamide							FALSE	1
55185	N-Nitrosodiethylamine	N-NitrosDEA	36						FALSE	1
54911	Pipobroman	Pipobroman							FALSE	1
54626	Aminopterin	Aminopterin							FALSE	1

Santa Susana Field Laboratory
Health Table - Unmitigated

Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
54115	Nicotine	Nicotine							FALSE	1
53963	2-Acetylaminofluorene	2-AcetylAmFluor							FALSE	1
53703	Dibenz[a,h]anthracene	D[a,h]anthracen	4.1	4.1					TRUE	1
53167	Estrone	Estrone							FALSE	1
52686	Trichlorfon	Trichlorfon							FALSE	1
52675	Penicillamine	Penicillamine							FALSE	1
52244	Tris(1-aziridinyl) phosphine sulfide	TrisAzirPhosphS							FALSE	1
51796	Urethane	Urethane	1						FALSE	1
51752	Nitrogen mustard	NitrogenMustard							FALSE	1
51525	Propylthiouracil	Propylthiouraci							FALSE	1
51285	2,4-Dinitrophenol	2,4-DiNPhenol							FALSE	1
51218	Fluorouracil	Fluorouracil							FALSE	1
50782	Aspirin	Aspirin							FALSE	1
50760	Actinomycin D	Actinomycin D							FALSE	1
50555	Reserpine	Reserpine							FALSE	1
50419	Clomiphene citrate	ClomipheneCitra							FALSE	1
50351	Thalidomide	Thalidomide							FALSE	1
50328	Benzo[a]pyrene	B[a]P	3.9	12					TRUE	1
50293	DDT (1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane)	DDT							FALSE	1
50282	Estradiol 17 beta	Estradiol 17bet							FALSE	1
50180	Cyclophosphamide	Cyclophosphamid							FALSE	1
50077	Mitomycin C	Mitomycin C							FALSE	1
50066	Phenobarbital	Phenobarbital							FALSE	1
50000	Formaldehyde	Formaldehyde	0.021		9		9	55	FALSE	1
43104	Volatile Organic Compounds (VOC)	VOC							FALSE	1
43101	Total Organic Gases	TOG							FALSE	1
42603	Oxides of Nitrogen	NOX							FALSE	1
42401	Oxides of sulfur	SOX							FALSE	1
42101	Carbon Monoxide [Criteria Pollutant]	CO							FALSE	1
16113	Reactive Organic Gas	ROG							FALSE	1
11101	Particulate Matter	PM							FALSE	1
9961	SULFURIC ACID+OLEUM	SULFURIC+OLEUM							FALSE	1
9960	SULFATES	SULFATES						120	FALSE	1
9911	Gasoline engine exhaust, total organic gas	GasolExhTOG							FALSE	1
9910	Gasoline engine exhaust, particulate matter	GasolExhPM							FALSE	1
9902	Diesel engine exhaust, total organic gas	DieselExhTOG							FALSE	1
9901	Diesel engine exhaust, particulate matter (Diesel PM)	DieselExhPM	1.1		5				FALSE	1
2222	Polybrominated diphenyl ethers (PBDEs)	PBDEs	0	0	0	0		0	FALSE	1
1206	Wood preservatives (containing arsenic and chromate)	Wood Preserv							FALSE	1
1205	alpha-chlorinated Toluenes	a-Cl-Toluenes							FALSE	1
1200	Tobacco products, smokeless	Tobac/smokeless							FALSE	1
1190	Talc containing asbestiform fibers	Talc w/asbest							FALSE	1
1185	Soots	Soots							FALSE	1
1181	Slagwool (man-made fibers)	Slagwool							FALSE	1
1180	Shale oils	Shale oils							FALSE	1
1175	Silica, crystalline (respirable)	Silica, Crystln			3				FALSE	1
1168	Rockwool (man-made fibers)	Rockwool							FALSE	1
1167	Retinol/retinyl esters	Retinol/yl estr							FALSE	1
1166	Radon and its decay products	Radon							FALSE	1
1165	Radionuclides	Radionuclides							FALSE	1
1160	Progestins	Progestins							FALSE	1
1155	Polybrominated biphenyls	PBBs							FALSE	1
1151	PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA]	PAHs-w/o	3.9	12					TRUE	1
1150	PAHs, total, with individ. components also reported	PAHs-w/							FALSE	1
1148	Nitrilotriacetic acid (salts)	NitrTriA(salts)							FALSE	1
1146	Nickel refinery dust from the pyrometallurgical process	Ni RefineryDust	0.91		0.014	0.011	0.06	0.2	TRUE	1
1140	Mineral oils (untreated and mildly treated oils)	Mineral oils							FALSE	1
1136	Mineral fibers (fine: man-made)	MinrlFibr(fine)							FALSE	1
1135	Mineral fibers (other than man-made)	MinrlFibr(othr)							FALSE	1
1131	Lubricant base oils and derived products	LubricntBaseOil							FALSE	1
1129	Lead compounds (other than inorganic)	Lead cmpd(org)							FALSE	1
1128	Lead compounds (inorganic)	Lead cmp(inorg)	0.042	0.0085					TRUE	1
1125	Isocyanates	Isocyanates							FALSE	1
1115	Glycol ethers (and their acetates)	Glycol Ethers							FALSE	1
1111	Glasswool (man-made fibers)	Glasswool							FALSE	1
1110	Gasoline vapors	Gasol vapors							FALSE	1
1104	Fluorocarbons (chlorinated)	Fluorocarb(Cl)							FALSE	1
1103	Fluorocarbons (brominated)	Fluorocarb(Br)							FALSE	1
1101	Fluorides and compounds	Fluorides&cmpds			13	0.04		240	TRUE	1
1100	Estrogens, steroidal	Estrogens,ster							FALSE	1
1095	Estrogens, non-steroidal	Estrogns,non-st							FALSE	1
1091	Epoxy resins	Epoxy resins							FALSE	1
1090	Environmental Tobacco Smoke	ETS							FALSE	1
1086	Dioxins, total, w/o individ. isomers reported {PCDDs} [Treat as 2378TCDD for HRA	Dioxins-w/o	130000	130000	4.00E-05	1.00E-08			TRUE	1
1085	Dioxins, total, with individ. isomers also reported {PCDDs}	Dioxins-w/							FALSE	1
1080	Dibenzofurans (chlorinated) {PCDFs} [Treated as 2378TCDD for HRA]	DiBenFurans(Cl)	130000	130000	4.00E-05	1.00E-08			TRUE	1
1078	Diaminotoluenes (mixed isomers)	Diaminotoluenes							FALSE	1
1075	Dialkylnitrosamines	DialkNitrosamin							FALSE	1
1073	[D] Cyanide compounds [Deleted/Obsolete Emittent ID]	[D] Cyanide cmp			9			340	FALSE	1
1070	Creosotes	Creosotes							FALSE	1
1068	Conjugated estrogens	ConjugEstrogens							FALSE	1
1066	Coke oven emissions	CokeOvnEmis							FALSE	1
1065	Chlorophenoxy herbicides	Cl-phenoxy herb							FALSE	1
1060	Chlorophenols	Chlorophenols							FALSE	1
1059	p-Chloro-o-toluidine (strong acid salts)	pCl-Tolui/salts							FALSE	1
1058	Chlorobenzenes	Chlorobenzns							FALSE	1
1056	Ceramic fibers (man-made)	CeramicFibers							FALSE	1
1055	Carrageenan (degraded)	Carrageenan							FALSE	1
1050	Carbon black extracts	CarbonBlackExtr							FALSE	1
1035	Bleomycins	Bleomycins							FALSE	1
1030	Bitumens, extracts of steam-refined and air-refined bitumens	Bitumens							FALSE	1
1025	Betel quid with tobacco	Betel quid							FALSE	1
1020	Benzidine-based dyes	Benzi dyes	500						FALSE	1
1017	Arsenic compounds (other than inorganic)	As cmpd(org)					0.015		FALSE	1
1016	Arsenic compounds (inorganic)	As cmpd(inorg)	12	1.5	0.015	3.50E-06		0.2	TRUE	1
1010	Androgenic (anabolic) steroids	Androgenic ster							FALSE	1
1005	Analgesic mixtures containing phenacetin	Analgesics/phen							FALSE	1
1000	Aflatoxins	Aflatoxins							FALSE	1

F.2 HARP Inputs - Mitigated

HARP2 - HRACalc (dated 17023) 7/14/2017 3:34:10 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 3

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 1
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_INITIAL\hra\M_I_CancerCancerRisk.csv
Cancer risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_INITIAL\hra\M_I_CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/14/2017 3:47:46 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 12

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 10
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_PROGRAM\hra\M_P_CancerCancerRisk.csv
Cancer risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_PROGRAM\hra\M_P_CancerCancerRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/14/2017 3:35:31 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_INITIAL\hra\M_I_CHINCChronicRisk.csv
Chronic risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_INITIAL\hra\M_I_CHINCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/14/2017 3:48:38 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_PROGRAM\hra\M_P_CHINCChronicRisk.csv
Chronic risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_PROGRAM\hra\M_P_CHINCChronicRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/14/2017 3:37:24 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_INITIAL\hra\M_I_AHINCAcuteRisk.csv
Acute risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_INITIAL\hra\M_I_AHINCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 17023) 7/14/2017 3:49:47 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER
Exposure duration are only adjusted for cancer assessments

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

****

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_PROGRAM\hra\M_P_AHINCAcuteRisk.csv
Acute risk total by receptor saved to:
C:\Users\tsu\Desktop\07132017\SSFL_M_PROGRAM\hra\M_P_AHINCAcuteRiskSumByRec.csv
HRA ran successfully

Santa Susana Field Laboratory

Emissions Summary

Step 1 - Summarize Emissions Into One Table

	Emissions (lbs/day)			
Source	Initial	Program	Source Type	Pollutant
ASBSR1	1.3	2.6	Fugitive Dust	PM10
ASBSR2	1.5	3.1	Fugitive Dust	PM10
ASBSR3	0.3	0.5	Fugitive Dust	PM10
ASBSR4	0.5	1.0	Fugitive Dust	PM10
ASBSR5	0.7	1.4	Fugitive Dust	PM10
ASBBP1	0.4	0.8	Fugitive Dust	PM10
ASBBP2	0.1	0.2	Fugitive Dust	PM10
ASBBP3	0.2	0.3	Fugitive Dust	PM10
ASDSR1	13.1	6.1	Fugitive Dust	PM10
ASDSR2	0.2	0.1	Fugitive Dust	PM10
ASNSR1	3.0	3.1	Fugitive Dust	PM10
ASNSR2	2.6	2.7	Fugitive Dust	PM10
ASNSR3	0.4	0.4	Fugitive Dust	PM10
LSBCV1	0.02	0.1	Equipment (Diesel)	DPM
LSBCV2	0.02	0.1	Equipment (Diesel)	DPM
LSBCV3	0.01	0.01	Equipment (Diesel)	DPM
LSBCV4	0.01	0.02	Equipment (Diesel)	DPM
LSBCV5	0.01	0.03	Equipment (Diesel)	DPM
LSBBP1	0.01	0.02	Equipment (Diesel)	DPM
LSBBP2	1.6E-03	4.4E-03	Equipment (Diesel)	DPM
LSBBP3	2.8E-03	7.9E-03	Equipment (Diesel)	DPM
LSDVC1	0.3	0.1	Equipment (Diesel)	DPM
LSDVC2	5.6E-03	1.8E-03	Equipment (Diesel)	DPM
LSNVC1	0.1	0.1	Equipment (Diesel)	DPM
LSNVC2	0.04	0.05	Equipment (Diesel)	DPM
LSNVC3	6.9E-03	7.8E-03	Equipment (Diesel)	DPM
LSOHR1	7.9E-05	8.4E-04	On-site Haul Route (Diesel)	DPM
LSOHR2	5.8E-05	6.1E-04	On-site Haul Route (Diesel)	DPM
LSOHR3	2.4E-05	2.6E-04	On-site Haul Route (Diesel)	DPM
LSOHR1	2.5E-03	9.4E-04	On-site Haul Route (Diesel)	DPM
LSOHR2	0	0	On-site Haul Route (Diesel)	DPM

Step 2 - Sum emissions by source

	lbs/day		
Source	Initial	Program	Pollutant
ASBSR1	1.3	2.6	PM10
ASBSR2	1.5	3.1	PM10
ASBSR3	0.3	0.5	PM10
ASBSR4	0.5	1.0	PM10
ASBSR5	0.7	1.4	PM10
ASBBP1	0.4	0.8	PM10
ASBBP2	0.1	0.2	PM10
ASBBP3	0.2	0.3	PM10
ASDSR1	13.1	6.1	PM10
ASDSR2	0.2	0.1	PM10
ASNSR1	3.0	3.1	PM10
ASNSR2	2.6	2.7	PM10
ASNSR3	0.4	0.4	PM10
LSOHR1	188.5	168.4	PM10
LSOHR2	16.2	85.6	PM10
LSOHR3	149.7	100.4	PM10
LSBCV1	0.02	0.1	DPM
LSBCV2	0.02	0.1	DPM
LSBCV3	0.005	0.0	DPM
LSBCV4	0.007	0.0	DPM
LSBCV5	0.009	0.0	DPM
LSBBP1	0.008	0.0	DPM
LSBBP2	0.002	0.0	DPM
LSBBP3	0.003	0.0	DPM
LSDVC1	0.3	0.1	DPM
LSDVC2	0.006	0.002	DPM
LSNVC1	0.1	0.1	DPM
LSNVC2	0.044	0.049	DPM
LSNVC3	0.007	0.008	DPM
LSOHR1	0.003	0.002	DPM
LSOHR2	0.0002	0.001	DPM

Step 3 - Calculate Annual Emissions

	lbs/year		
Source	Initial	Program	Pollutant
ASBSR1	330	684	PM10
ASBSR2	391	809	PM10
ASBSR3	67	139	PM10
ASBSR4	120	248	PM10
ASBSR5	174	360	PM10
ASBBP1	99	204	PM10
ASBBP2	20	41	PM10
ASBBP3	41	85	PM10
ASDSR1	3,393	1,579	PM10
ASDSR2	40	18	PM10
ASNSR1	777	807	PM10
ASNSR2	670	695	PM10
ASNSR3	92	96	PM10
LSOHR1	49,023	43,776	PM10
LSOHR2	4,201	22,268	PM10
LSOHR3	38,934	26,113	PM10
LSBCV1	6	17	DPM
LSBCV2	6	17	DPM
LSBCV3	1	4	DPM
LSBCV4	2	5	DPM
LSBCV5	2	7	DPM
LSBBP1	2	6	DPM
LSBBP2	0	1	DPM
LSBBP3	1	2	DPM
LSDVC1	88	29	DPM
LSDVC2	1	0	DPM
LSNVC1	13	15	DPM
LSNVC2	11	13	DPM
LSNVC3	2	2	DPM
LSOHR1	1	1	DPM
LSOHR2	0.1	0.3	DPM

Santa Susana Field Laboratory

Emissions Summary

Step 1 - Summarize Emissions Into One Table

	Emissions (lbs/day)			
Source	Initial	Program	Source Type	Pollutant
LSOHR3	2.0E-03	7.7E-04	On-site Haul Route (Diesel)	DPM
LSOHR1	1.9E-04	6.6E-04	On-site Haul Route (Diesel)	DPM
LSOHR2	1.8E-04	6.3E-04	On-site Haul Route (Diesel)	DPM
LSOHR3	1.2E-04	4.2E-04	On-site Haul Route (Diesel)	DPM
LSOHR1	5	58	On-site Haul Route (Dust)	PM10
LSOHR2	4	42	On-site Haul Route (Dust)	PM10
LSOHR3	2	18	On-site Haul Route (Dust)	PM10
LSOHR1	170	65	On-site Haul Route (Dust)	PM10
LSOHR2	0	0	On-site Haul Route (Dust)	PM10
LSOHR3	140	53	On-site Haul Route (Dust)	PM10
LSOHR1	13	46	On-site Haul Route (Dust)	PM10
LSOHR2	12	43	On-site Haul Route (Dust)	PM10
LSOHR3	8	29	On-site Haul Route (Dust)	PM10
SLINE3	0	0	Haul Roads (Diesel)	DPM
SLINE4	2.1E-03	2.1E-03	Haul Roads (Diesel)	DPM
SLINE6	2.7E-03	2.7E-03	Haul Roads (Diesel)	DPM
SLINE7	2.9E-03	2.9E-03	Haul Roads (Diesel)	DPM
SLINE8	1.7E-03	1.7E-03	Haul Roads (Diesel)	DPM
SLINE9	0	0	Haul Roads (Diesel)	DPM
SLINE10	0	0	Haul Roads (Diesel)	DPM
SLINE12	0	0	Haul Roads (Diesel)	DPM
SLINE13	0	0	Haul Roads (Diesel)	DPM
SLINE14	0	0	Haul Roads (Diesel)	DPM
SLINE15	5.5E-03	5.5E-03	Haul Roads (Diesel)	DPM
SLINE3	1.6E-03	1.6E-03	Haul Roads (Diesel)	DPM
SLINE4	2.4E-03	2.4E-03	Haul Roads (Diesel)	DPM
SLINE6	0	0	Haul Roads (Diesel)	DPM
SLINE7	0	0	Haul Roads (Diesel)	DPM
SLINE8	0	0	Haul Roads (Diesel)	DPM
SLINE9	0	0	Haul Roads (Diesel)	DPM
SLINE10	0	0	Haul Roads (Diesel)	DPM
SLINE12	6.4E-04	6.4E-04	Haul Roads (Diesel)	DPM

Step 2 - Sum emissions by source

	lbs/day		
Source	Initial	Program	Pollutant
LSOHR3	0.002	0.001	DPM
SLINE3	0.002	0.002	DPM
SLINE4	0.002	0.002	DPM
SLINE6	0.003	0.003	DPM
SLINE7	0.003	0.003	DPM
SLINE8	0.002	0.002	DPM
SLINE9	0.004	0.004	DPM
SLINE10	0.007	0.007	DPM
SLINE12	0.001	0.001	DPM
SLINE13	0.002	0.002	DPM
SLINE14	0.002	0.002	DPM
SLINE15	0.006	0.006	DPM

Step 3 - Calculate Annual Emissions

	lbs/year		
Source	Initial	Program	Pollutant
LSOHR3	1	0	DPM
SLINE3	0.4	0.4	DPM
SLINE4	0.6	0.6	DPM
SLINE6	0.7	0.7	DPM
SLINE7	0.8	0.8	DPM
SLINE8	0.5	0.5	DPM
SLINE9	0.9	0.9	DPM
SLINE10	1.7	1.7	DPM
SLINE12	0.2	0.2	DPM
SLINE13	0.5	0.5	DPM
SLINE14	0.5	0.5	DPM
SLINE15	1.7	1.7	DPM

Santa Susana Field Laboratory

Emissions Summary

Step 1 - Summarize Emissions Into One Table

	Emissions (lbs/day)			
Source	Initial	Program	Source Type	Pollutant
SLINE13	1.9E-03	1.9E-03	Haul Roads (Diesel)	DPM
SLINE14	1.9E-03	1.9E-03	Haul Roads (Diesel)	DPM
SLINE15	6.4E-03	6.4E-03	Haul Roads (Diesel)	DPM
SLINE3	0	0	Haul Roads (Diesel)	DPM
SLINE4	0	0	Haul Roads (Diesel)	DPM
SLINE6	2.7E-03	2.7E-03	Haul Roads (Diesel)	DPM
SLINE7	0	0	Haul Roads (Diesel)	DPM
SLINE8	0	0	Haul Roads (Diesel)	DPM
SLINE9	0	0	Haul Roads (Diesel)	DPM
SLINE10	6.6E-03	6.6E-03	Haul Roads (Diesel)	DPM
SLINE12	0	0	Haul Roads (Diesel)	DPM
SLINE13	0	0	Haul Roads (Diesel)	DPM
SLINE14	0	0	Haul Roads (Diesel)	DPM
SLINE15	5.5E-03	5.5E-03	Haul Roads (Diesel)	DPM
SLINE3	0	0	Haul Roads (Diesel)	DPM
SLINE4	0	0	Haul Roads (Diesel)	DPM
SLINE6	2.8E-03	2.8E-03	Haul Roads (Diesel)	DPM
SLINE7	2.9E-03	2.9E-03	Haul Roads (Diesel)	DPM
SLINE8	0	0	Haul Roads (Diesel)	DPM
SLINE9	3.6E-03	3.6E-03	Haul Roads (Diesel)	DPM
SLINE10	0	0	Haul Roads (Diesel)	DPM
SLINE12	0	0	Haul Roads (Diesel)	DPM
SLINE13	0	0	Haul Roads (Diesel)	DPM
SLINE14	0	0	Haul Roads (Diesel)	DPM
SLINE15	5.6E-03	5.6E-03	Haul Roads (Diesel)	DPM

Step 2 - Sum emissions by source

	lbs/day		
Source	Initial	Program	Pollutant

Step 3 - Calculate Annual Emissions

	lbs/year		
Source	Initial	Program	Pollutant

Santa Susana Field Laboratory
Department of Energy Data
Environmental Impact Statement - Area IV and Northern Buffer Zone
Appendix G - Table G-6

Step 4 - Assign lookup values for chemicals in HARP Database

		Site Soil Concentration of Chemicals (milligrams per kilogram) in Sub-areas								
Constituent	**Alt Name**	**3**	**5A**	**5B**	**5C**	**5D**	**6**	**7**	**8**	**NBZ**
Antimony		1.60E-01	2.60E-01	1.50E-01	3.20E-01	4.60E-01	2.00E-01	8.6	7.80E-01	3.10E-01
Cadmium		3.80E-01	3.80E-01	2.60E-01	2.80E-01	3.60E-01	3.80E-01	2.90E-01	3.30E-01	2.40E-01
Chromium, hexavalent	Chromium, hexavalent (& compounds)	--	6.10E-01	5.30E-01	7.10E-01	6.70E-01	6.60E-01	7.60E-01	5.50E-01	8.40E-01
Lead		1.50E+01	1.70E+01	9.7	1.20E+01	1.20E+01	2.00E+01	1.80E+02	3.30E+01	1.10E+01
Mercury		4.00E-02	6.20E-02	7.10E-02	8.70E-02	4.20E-01	1.90E-01	3.60E-02	5.50E-02	8.30E-01
Selenium		3.20E-01	1.60E-01	4.90E-01	1.60E-01	1.80E-01	3.00E-01	1.60E-01	2.10E-01	3.40E-01
Silver		3.80E-01	3.40E-01	4.20E-01	1.70E-01	8.10E-02	4.60E-01	8.00E-02	5.20E-02	1.60E-01
Zinc		7.70E+01	8.10E+01	7.50E+01	7.90E+01	8.00E+01	8.20E+01	1.00E+02	7.10E+01	6.20E+01
1-Methylnaphthalene		2.70E-03	7.10E-01	1.40E-02	6.80E-03	2.70E-03	2.40E-03	4.10E-02	1.80E-03	2.20E-03
2-Methylnaphthalene	2-Methyl naphthalene	6.50E-03	6.70E-01	1.30E-02	7.40E-03	2.40E-03	3.00E-03	3.30E-02	2.70E-03	2.40E-03
Acenaphthene		9.30E-04	1.10E-01	1.00E-02	1.90E-02	2.60E-02	9.60E-03	1.80E-01	4.20E-03	4.10E-03
Anthracene		3.10E-03	1.90E-02	1.60E-02	1.50E-02	3.80E-02	1.50E-02	1.30E-01	2.80E-03	1.10E-02
Benzo(a)anthracene	Benz[a]anthracene	2.30E-02	4.10E-02	7.80E-02	3.50E-02	7.60E-02	3.60E-02	2.90E-01	1.80E-02	1.40E-02
Benzo(a)pyrene	Benzo[a]pyrene	1.10E-02	2.80E-02	1.20E-01	2.90E-02	5.90E-02	3.40E-02	2.20E-01	1.40E-02	1.30E-02
Benzo(b)fluoranthene	Benzo[b]fluoranthene	2.00E-02	4.00E-02	1.20E-01	3.80E-02	6.40E-02	4.70E-02	2.60E-01	1.40E-02	1.20E-02
Benzo(e)pyrene	Benzo[e]pyrene	8.20E-02	2.40E-02	3.70E-02	1.80E-02	4.40E-02	1.80E-02	1.70E-02	5.20E-02	--
Benzo(g,h,i)perylene	Benzo[g,h,i]perylene	1.60E-02	1.20E-02	2.00E-01	1.60E-02	3.50E-02	1.70E-02	3.50E-02	5.00E-03	6.70E-03
Benzo(k)fluoranthene	Benzo[k]fluoranthene	1.60E-02	2.00E-02	4.40E-02	2.30E-02	5.50E-02	2.40E-02	1.60E-01	9.80E-03	9.60E-03
Bis(2-ethylhexyl)phthalate		1.80E-02	9.50E-02	1.30E-01	5.40E-02	3.00E-02	5.30E-02	9.70E-02	1.90E-02	2.80E-02
Chrysene		9.90E-03	3.20E-02	1.00E-01	3.60E-02	5.30E-02	3.40E-02	2.20E-01	1.10E-02	9.70E-03
Dibenzo(a,h)anthracene	Dibenz[a,h]anthracene	3.30E-03	1.00E-02	3.90E-02	1.10E-02	2.70E-02	9.40E-03	2.50E-02	6.10E-03	7.70E-03
Di-n-octylphthalate	n-Dioctyl phthalate	--	5.00E-02	2.40E-02	1.80E-02	1.30E-02	2.60E-02	2.90E-01	2.00E-02	4.00E-02
Fluoranthene		1.40E-02	5.70E-02	7.20E-02	8.40E-02	9.30E-02	7.70E-02	6.40E-01	1.30E-02	1.60E-02
Fluorene		3.40E-03	4.60E-03	9.90E-03	1.00E-02	1.10E-02	6.30E-03	9.40E-02	2.80E-03	3.80E-03
Indeno(1,2,3-cd)pyrene	Indeno[1,2,3-cd]pyrene	6.30E-03	1.30E-02	2.60E-01	2.00E-02	4.50E-02	1.90E-02	4.40E-02	5.60E-03	8.40E-03
Naphthalene		8.40E-03	7.60E-02	1.60E-02	4.60E-03	2.30E-03	3.10E-03	3.80E-02	3.00E-03	4.90E-03
N-Nitrosodimethylamine		--	7.40E-04	4.40E-03	7.90E-03	2.10E-03	5.80E-02	2.90E-02	--	3.50E-03
Phenanthrene		8.60E-03	5.50E-02	4.60E-02	4.50E-02	3.40E-02	4.70E-02	4.90E-01	7.10E-03	1.00E-02
Pyrene		1.20E-02	5.00E-02	9.80E-02	7.50E-02	8.60E-02	6.80E-02	5.20E-01	1.30E-02	1.30E-02
Aroclor 1254	PCBs {Polychlorinated biphenyls}	3.70E-02	1.20E-02	4.70E-02	3.10E-02	4.00E-02	1.50E-01	2.90E-02	4.30E-02	8.30E-02
Aroclor 1260	PCBs {Polychlorinated biphenyls}	3.90E-02	3.00E-02	3.60E-02	2.50E-02	8.80E-03	4.80E-02	2.40E-02	8.10E-03	1.40E-01
Aroclor 5460	PCBs {Polychlorinated biphenyls}	5.60E-02	1.60E-02	2.00E-02	1.80E-02	6.00E-03	1.70E-01	3.40E-02	7.90E-02	3.60E-02
4,4'-DDD	Dichlorodiphenyldichloroethane {DDD}	9.35E-05								
4,4'-DDE	Dichlorodiphenyldichloroethylene {DDE}	1.79E-03								
4,4'-DDT	DDT {1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane}	2.48E-03								
beta-BHC	beta-Hexachlorocyclohexane	7.20E-05								
Chlordane (Technical)	Chlordane	1.96E-03								
delta-BHC	Hexachlorocyclohexanes (mixed or technical grade)	5.55E-05								
Dieldrin		8.08E-05								
MCPA	Chlorophenoxy herbicides	1.42E-01								
MCPP		9.76E-02								

Santa Susana Field Laboratory
Department of Energy Data
Environmental Impact Statem
Appendix G - Table G-6

Step 4 - Assign lookup values f

Constituent	Pollutant ID	Pollutant ID (Alt Name)	Pollutant ID (Lookup)	Max Conc (mg/kg)
Antimony	7440360		7440360	8.60E+00
Cadmium	7440439		7440439	3.80E-01
Chromium, hexavalent		18540299	18540299	8.40E-01
Lead	7439921		7439921	1.80E+02
Mercury	7439976		7439976	8.30E-01
Selenium	7782492		7782492	4.90E-01
Silver	7440224		7440224	4.60E-01
Zinc	7440666		7440666	1.00E+02
1-Methylnaphthalene				
2-Methylnaphthalene		91576	91576	6.70E-01
Acenaphthene	83329		83329	1.80E-01
Anthracene	120127		120127	1.30E-01
Benzo(a)anthracene		56553	56553	2.90E-01
Benzo(a)pyrene		50328	50328	2.20E-01
Benzo(b)fluoranthene		205992	205992	2.60E-01
Benzo(e)pyrene		192972	192972	8.20E-02
Benzo(g,h,i)perylene		191242	191242	2.00E-01
Benzo(k)fluoranthene		207089	207089	1.60E-01
Bis(2-ethylhexyl)phthalate				
Chrysene	218019		218019	2.20E-01
Dibenzo(a,h)anthracene		53703	53703	3.90E-02
Di-n-octylphthalate		117840	117840	2.90E-01
Fluoranthene	206440		206440	6.40E-01
Fluorene	86737		86737	9.40E-02
Indeno(1,2,3-cd)pyrene		193395	193395	2.60E-01
Naphthalene	91203		91203	7.60E-02
N-Nitrosodimethylamine	62759		62759	5.80E-02
Phenanthrene	85018		85018	4.90E-01
Pyrene	129000		129000	5.20E-01
Aroclor 1254		1336363	1336363	1.50E-01
Aroclor 1260		1336363	1336363	1.40E-01
Aroclor 5460		1336363	1336363	1.70E-01
4,4'-DDD		72548	72548	9.35E-05
4,4'-DDE		72559	72559	1.79E-03
4,4'-DDT		50293	50293	2.48E-03
beta-BHC		319857	319857	7.20E-05
Chlordane (Technical)		57749	57749	1.96E-03
delta-BHC		608731	608731	5.55E-05
Dieldrin	60571		60571	8.08E-05
MCPA		1065	1065	1.42E-01
MCPP				

Santa Susana Field Laboratory
Combined Concentration Data

Copied from file "SSFL All Data Combined.xlsx" - Pivot Table, and DOE Data tab

Chemical Name	CAS No.	Units	Max Conc	Group No.
PCBs	1336363	mg/kg	0.17	2
1-8OctaCDD	3268879	mg/kg	0.268	2
1-3,7-9HxCDD	19408743	mg/kg	0.000492	2
1-4,6-8HpCDD	35822469	mg/kg	0.00301	2
1-8OctaCDF	39001020	mg/kg	0.00094	2
1-4,7,8HxCDD	39227286	mg/kg	0.000252	2
PCB 189	39635319	mg/kg	0.0000607	2
1-3,7,8PeCDD	40321764	mg/kg	0.00015	2
2,3,7,8-TCDF	51207319	mg/kg	0.00000443	2
1-4,7-9HpCDF	55673897	mg/kg	0.0000425	2
2-4,7,8PeCDF	57117314	mg/kg	0.0000146	2
1-3,7,8PeCDF	57117416	mg/kg	0.00000809	2
1-3,6-8HxCDF	57117449	mg/kg	0.0000149	2
1-3,6-8HxCDD	57653857	mg/kg	0.00061	2
2-4,6-8HxCDF	60851345	mg/kg	0.0000226	2
1-4,6-8HpCDF	67562394	mg/kg	0.000831	2
1-4,7,8HxCDF	70648269	mg/kg	0.0000187	2
1-3,7-9HxCDF	72918219	mg/kg	0.0000202	2
SULFATES	9960	mg/kg	7.5	2
Fluorides&cmpds	1101	mg/kg	7	2
Aluminum	7429905	mg/kg	14400	2
Lead	7439921	mg/kg	341	2
Manganese	7439965	mg/kg	2700	2
Mercury	7439976	mg/kg	1.67	2
Nickel	7440020	mg/kg	21	2
Silver	7440224	mg/kg	35.3	2
Thallium	7440280	mg/kg	0.457	2
Antimony	7440360	mg/kg	41.5	2
Arsenic	7440382	mg/kg	8.56	2
Barium	7440393	mg/kg	681	2
Beryllium	7440417	mg/kg	0.713	2
Cadmium	7440439	mg/kg	20.6	2
Chromium	7440473	mg/kg	1420	2
Cobalt	7440484	mg/kg	7.04	2
Copper	7440508	mg/kg	234	2
Vanadium	7440622	mg/kg	39.6	2
Zinc	7440666	mg/kg	546	2
Selenium	7782492	mg/kg	2.66	2
Cr(VI)	18540299	mg/kg	0.793	2
B[a]P	50328	mg/kg	0.341	2
D[a,h]anthracen	53703	mg/kg	0.036	2
B[a]anthracene	56553	mg/kg	0.276	2
Acenaphthene	83329	mg/kg	0.0254	2
Phenanthrene	85018	mg/kg	0.147	2
Fluorene	86737	mg/kg	0.0142	2
Naphthalene	91203	mg/kg	0.0162	2
2MeNaphthalene	91576	mg/kg	0.0175	2
Anthracene	120127	mg/kg	0.0214	2
Pyrene	129000	mg/kg	0.328	2
B[g,h,i]perylen	191242	mg/kg	0.138	2
In[1,2,3-cd]pyr	193395	mg/kg	0.264	2
B[b]fluoranthen	205992	mg/kg	0.383	2

Pivot Table from Columns A-E

Pivot

Max of Max Conc		Group No.					
Chemical Name	CAS No.	2	3	4	9	DOE	Notes	**Max Conc (mg/kg)**
[D] Acetone	67641	0.0654	0.886	132	132			132
1,1,1-TCA	71556	0.325	0.00299	0				0.325
1,1,2TriClEthan	79005	0.00206		0				0.00206
1,1-DiClEthane	75343			0				0
1,2,3TriClPropn	96184			0				0
1,2,4TriClBenz	120821		0.007	0				0.007
1,2,4TriMeBenze	95636	5.4	0.036	0.002	0.004			5.4
1,2-DiClBenzene	95501	0.001	0.00703	0				0.00703
1,2-DiClEthylen	540590	0.176	0.0924	14	0.00205			14
1,2-DiClPropane	78875		0.000314	0				0.000314
1,3-DiClBenzene	541731	0.0006	0.000448	0				0.0006
1,3-DiClPropene	542756			0				0
1,4-Dioxane	123911	0.02		0				0.02
1-3,6-8HxCDD	57653857	0.00061		30.7	3.38E-08			30.7
1-3,6-8HxCDF	57117449	0.0000149		4.8	7.96E-09			4.8
1-3,7,8PeCDD	40321764	0.00015		6.32	3.9E-09			6.32
1-3,7,8PeCDF	57117416	0.00000809		8.3	9.57E-09			8.3
1-3,7-9HxCDD	19408743	0.000492		20.6	1.76E-08			20.6
1-3,7-9HxCDF	72918219	0.0000202		0.748	2.29E-09			0.748
1-4,6-8HpCDD	35822469	0.00301		536	0.00000112			536
1-4,6-8HpCDF	67562394	0.000831		71.9	0.000138			71.9
1-4,7,8HxCDD	39227286	0.000252		9.53	8.77E-09			9.53
1-4,7,8HxCDF	70648269	0.0000187		8.6	8.61E-09			8.6
1-4,7-9HpCDF	55673897	0.0000425		2.22	1.35E-08			2.22
1-8OctaCDD	3268879	0.268		6140	0.00899			6140
1-8OctaCDF	39001020	0.00094		158	0.000000334			158
2,3,7,8-TCDF	51207319	0.00000443		12.9	3.62E-08			12.9
2,4,5TriClPhenl	95954			0				0
2,4,6TriClPhenl	88062			0				0
2,4-DiClPhenol	120832			0				0
2,4-DiMePhenol	105679	2.88	11.5	0				11.5
2,4-DiNitToluen	121142			0				0
2,4-DiNPhenol	51285			0				0
2,6-DiNitToluen	606202			0				0
2-4,6-8HxCDF	60851345	0.0000226		8.4	0.000009			8.4
2-4,7,8PeCDF	57117314	0.0000146		4.69	5.79E-09			4.69
2-Chlorophenol	95578			0				0
2MeNaphthalene	91576	0.0175		0.041	5.71	0.67		5.71
2-NitroPhenol	88755			0				0
3,3'DiClBenzidn	91941			0				0
4,6-DiNiCresol	534521			0				0
4-Nitrophenol	100027			0				0
Acenaphthene	83329	0.0254		0.021	0.417	0.18		0.417
Acenaphthylene	208968	0.0073		0.0055	0.274			0.274
Aldrin	309002			0				0
alphaHexClCycHx	319846			0				0
Aluminum	7429905	14400	20000	21000	29300			29300
Aniline	62533			0				0
Anthracene	120127	0.0214		0.064	0.441	0.13		0.441

Chemical Name	CAS No.	Units	Max Conc	Group No.									
Fluoranthene	206440	mg/kg	0.294	2	Antimony	7440360	41.5	4.52	3.4	2.16	8.6		41.5
B[k]fluoranthen	207089	mg/kg	0.155	2	Arsenic	7440382	8.56	9.7	11	8.68			11
Acenaphthylene	208968	mg/kg	0.0073	2					0				0
Chrysene	218019	mg/kg	0.187	2			0.276		0.27	0.0132	0.29		0.29
DiethylPhthalat	84662	mg/kg	0.03	2			0.341		0.25	0.0182	0.22		0.341
DiButyl Phthal	84742	mg/kg	268	2			0.383		0.3	0.0286	0.26		0.383
ButylBenzPhthal	85687	mg/kg	0.00944	2							0.082		0.082
N-NitrosDiPhAmi	86306	mg/kg	0.35	2			0.138		0.13	0.0254	0.2		0.2
Benzidine	92875	mg/kg	0.347	2			0.155		0.11	0.0127	0.16		0.16
o-Cresol	95487	mg/kg	1.05	2	Barium	7440393	681	110	140	161			681
2,4-DiMePhenol	105679	mg/kg	2.88	2	Benzene	71432	0.001		0.07	0.00732			0.07
m-Cresol	108394	mg/kg	43	2	Benzidine	92875	0.347		0				0.347
Phenol	108952	mg/kg	2.84	2	Beryllium	7440417	0.713	1.4	0.83	0.984			1.4
Di2-EthHxPhthal	117817	mg/kg	20.8	2	Bis(2ClEth)Ethr	111444			0				0
n-DiOctylPhthal	117840	mg/kg	2.6	2	BromoDiClMethan	75274		0.009	0	0.007			0.009
1,4-Dioxane	123911	mg/kg	0.02	2	Bromoform	75252			0				0
[D] Acetone	67641	mg/kg	0.0654	2	ButylBenzPhthal	85687	0.00944	0.127	0.0051	0.0127			0.127
Chloroform	67663	mg/kg	0.00211	2	Cadmium	7440439	20.6	8	**49**	1.33	0.38	Hotspot. Group 4, Coca	20.6
Benzene	71432	mg/kg	0.001	2	CCl4	56235			0			site. Test Stand 4	0
1,1,1-TCA	71556	mg/kg	0.325	2	CFC-113	76131			0				0
Methyl Bromide	74839	mg/kg	0.0005	2	Chlorobenzn	108907	0.271	0.008	0	0.005			0.271
Vinyl Chloride	75014	mg/kg	0.004	2	ChloroDiBrMetha	124481			0				0
Methylene Chlor	75092	mg/kg	0.59	2	Chloroform	67663	0.00211	0.003	0				0.003
Vinylid Chlorid	75354	mg/kg	0.000324	2	Chromium	7440473	1420	39	100	52.6			1420
MEK	78933	mg/kg	0.00923	2	Chrysene	218019	0.187		0.29	0.0232	0.22		0.29
1,1,2TriClEthan	79005	mg/kg	0.00206	2	Cobalt	7440484	7.04	14	19	9.87			19
TCE	79016	mg/kg	12.2	2	Copper	7440508	234	70.9	71	43.2			234
o-Xylene	95476	mg/kg	0.252	2	Cr(VI)	18540299	0.793	0.768		**6.2**	0.84	Hotspot. Group 9,	0.84
1,2-DiClBenzene	95501	mg/kg	0.001	2	CS2	75150			0			Silvernale.	0
1,2,4TriMeBenze	95636	mg/kg	5.4	2	Cumene	98828	0.381	0.000432	0				0.381
Cumene	98828	mg/kg	0.381	2	D[a,h]anthracen	53703	0.036		0.041	0.0108	0.039		0.041
Ethyl Benzene	100414	mg/kg	0.0549	2	DBCP	96128			0.009				0.009
Styrene	100425	mg/kg	0.000496	2	DDD	72548			0		0.0000935		0.0000935
p-DiClBenzene	106467	mg/kg	0.178	2	DDT	50293			0		0.00248		0.00248
Toluene	108883	mg/kg	0.00203	2	Di2-EthHxPhthal	117817	20.8	1.73	0.4	0.425			20.8
Chlorobenzn	108907	mg/kg	0.271	2	Dibenzofuran	132649			0				0
Perc	127184	mg/kg	0.183	2	DiButyl Phthal	84742	268	0.0335	0.0828	0.00893			268
1,2-DiClEthylen	540590	mg/kg	0.176	2	DiClDiFlmethane	75718			0				0
1,3-DiClBenzene	541731	mg/kg	0.0006	2	DiClDiPhEthylen	72559			0		0.00179		0.00179
Xylenes	1330207	mg/kg	0.417	2	Dieldrin	60571			0		0.0000808		0.0000808
PCBs	1336363	mg/kg	5.46	3	DiethylPhthalat	84662	0.03	0.04	0	0.041			0.041
SULFATES	9960	mg/kg	13.7	3	DimethylPhthala	131113			0.00061	0.315			0.315

Chemical Name	CAS No.	Units	Max Conc	Group No.									
Fluorides&cmpds	1101	mg/kg	200	3	EDB	106934			0				0
Aluminum	7429905	mg/kg	20000	3	Ethyl Benzene	100414	0.0549	0.02	0.22	0.0314			0.22
Lead	7439921	mg/kg	59.7	3	Ethyl Chloride	75003			0				0
Manganese	7439965	mg/kg	509	3	Fluoranthene	206440	0.294		0.51	0.0489	0.64		0.64
Mercury	7439976	mg/kg	0.0947	3	Fluorene	86737	0.0142		0.0098	0.563	0.094		0.563
Nickel	7440020	mg/kg	30.9	3	Fluorides&cmpds	1101	7	200	570	3.08			570
Silver	7440224	mg/kg	8.15	3	Formaldehyde	50000		9.48	29	25.6			29
Thallium	7440280	mg/kg	0.636	3	HeptachloEpoxid	1024573			0				0
Antimony	7440360	mg/kg	4.52	3	Heptachlor	76448			0				0
Arsenic	7440382	mg/kg	9.7	3	HexaClBenzene	118741			0				0
Barium	7440393	mg/kg	110	3	HexaClButadiene	87683			0				0
Beryllium	7440417	mg/kg	1.4	3	HexaClEthane	67721			0				0
Cadmium	7440439	mg/kg	8	3	HexClCycPentadi	77474			0				0
Chromium	7440473	mg/kg	39	3	In[1,2,3-cd]pyr	193395	0.264		0.12	0.0177	0.26		0.264
Cobalt	7440484	mg/kg	14	3	Isophorone	78591			0				0
Copper	7440508	mg/kg	70.9	3	Lead	7439921	341	59.7	**890**	25	180	Hotspots. Group 4, Coca	180
Vanadium	7440622	mg/kg	58	3	Lindane	58899			0			site and Group 2	0
Zinc	7440666	mg/kg	186	3	Manganese	7439965	2700	509	205	586			2700
Selenium	7782492	mg/kg	0.68	3	m-Cresol	108394	43						43
Cr(VI)	18540299	mg/kg	0.768	3	Me t-ButylEther	1634044			0				0
Fluorides&cmpds	1101	mg/kg	7	3	MEK	78933	0.00923	0.014	4.4	0.035			4.4
Aluminum	7429905	mg/kg	15400	3	Mercury	7439976	1.67	0.0947	0.14	0.117	0.83		1.67
Lead	7439921	mg/kg	17.7	3	Methyl Bromide	74839	0.0005		0				0.0005
Manganese	7439965	mg/kg	411	3	Methyl Chloride	74873		0.00204	0				0.00204
Mercury	7439976	mg/kg	0.0133	3	Methylene Chlor	75092	0.59	0.0529	2.3	0.00522			2.3
Nickel	7440020	mg/kg	18.8	3	MethyleneBromid	74953			0				0
Silver	7440224	mg/kg	0.164	3	MIBK	108101		0.00313	0				0.00313
Thallium	7440280	mg/kg	0.192	3	Naphthalene	91203	0.0162		0.07	2	0.076		2
Antimony	7440360	mg/kg	4.15	3	n-DiOctylPhthal	117840	2.6	0.0434	0.0035	0.132	0.29		2.6
Arsenic	7440382	mg/kg	6.57	3	Nickel	7440020	21	30.9	30.1	36.5			36.5
Barium	7440393	mg/kg	100	3	Nitrobenzene	98953			0				0
Beryllium	7440417	mg/kg	1.02	3	N-NitrosDiPhAmi	86306	0.35	0.12	0				0.35
Cadmium	7440439	mg/kg	8	3	N-NitrosDMA	62759			0	0.00862	0.058		0.058
Chromium	7440473	mg/kg	30.2	3	N-NitrosDPrAmin	621647			0				0
Cobalt	7440484	mg/kg	11.1	3	o-Cresol	95487	1.05		0				1.05
Copper	7440508	mg/kg	24.6	3	o-Xylene	95476	0.252	0.028	0.006	0.004			0.252
Vanadium	7440622	mg/kg	46.2	3	PCB 189	39635319	0.0000607			0.00319			0.00319
Zinc	7440666	mg/kg	96	3	PCBs	1336363	0.17	5.46	0.69	0.742	0.17		5.46
Selenium	7782492	mg/kg	0.23	3	p-Chloroaniline	106478			0				0
Formaldehyde	50000	mg/kg	9.48	3	PCP	87865			0				0
DiethylPhthalat	84662	mg/kg	0.04	3	p-Cresol	106445			0				0
DiButyl Phthal	84742	mg/kg	0.0335	3	p-DiClBenzene	106467	0.178	0.00335	0.000267				0.178
ButylBenzPhthal	85687	mg/kg	0.127	3	Perc	127184	0.183	0.000943	0.002				0.183
N-NitrosDiPhAmi	86306	mg/kg	0.12	3	Perylene	198550				0.028			0.028
2,4-DiMePhenol	105679	mg/kg	11.5	3	Phenanthrene	85018	0.147		0.25	1.8	0.49		1.8
Phenol	108952	mg/kg	1.39	3	Phenol	108952	2.84	1.39	0				2.84
Di2-EthHxPhthal	117817	mg/kg	1.73	3	Pyrene	129000	0.328		0.46	0.0899	0.52		0.52
n-DiOctylPhthal	117840	mg/kg	0.0434	3	Selenium	7782492	2.66	0.68	1.5	0.779	0.49		2.66
[D] Acetone	67641	mg/kg	0.886	3	Silver	7440224	35.3	8.15	0.52	79.7	0.46		79.7
Chloroform	67663	mg/kg	0.003	3	Styrene	100425	0.000496	0.00788	0	0.000327			0.00788
1,1,1-TCA	71556	mg/kg	0.00299	3	SULFATES	9960	7.5	13.7		56.1			56.1
Methyl Chloride	74873	mg/kg	0.00204	3	t-Butyl Alcohol	75650			0				0
Methylene Chlor	75092	mg/kg	0.0529	3	TCE	79016	12.2	6.74	84	3.63			84
BromoDiClMethan	75274	mg/kg	0.009	3	TetraClEthane	79345			0				0
Vinylid Chlorid	75354	mg/kg	0.00109	3	Thallium	7440280	0.457	0.636	0.73	0.44			0.73
TriClFluorMetha	75694	mg/kg	0.003	3	Toluene	108883	0.00203	0.00144	0.008	0.1			0.1
1,2-DiClPropane	78875	mg/kg	0.000314	3	TriClFluorMetha	75694		0.003	0	0.002			0.003

Chemical Name	CAS No.	Units	Max Conc	Group No.
MEK	78933	mg/kg	0.014	3
TCE	79016	mg/kg	6.74	3
o-Xylene	95476	mg/kg	0.028	3
1,2-DiClBenzene	95501	mg/kg	0.00703	3
1,2,4TriMeBenze	95636	mg/kg	0.036	3
Cumene	98828	mg/kg	0.000432	3
Ethyl Benzene	100414	mg/kg	0.02	3
Styrene	100425	mg/kg	0.00788	3
p-DiClBenzene	106467	mg/kg	0.00335	3
MIBK	108101	mg/kg	0.00313	3
Toluene	108883	mg/kg	0.00144	3
Chlorobenzn	108907	mg/kg	0.008	3
1,2,4TriClBenz	120821	mg/kg	0.007	3
Perc	127184	mg/kg	0.000943	3
1,2-DiClEthylen	540590	mg/kg	0.0924	3
1,3-DiClBenzene	541731	mg/kg	0.000448	3
Xylenes	1330207	mg/kg	0.034	3
Fluorides&cmpds	1101	mg/kg	570	4
Formaldehyde	50000	mg/kg	29	4
DDT	50293	µg/kg	0	4
B[a]P	50328	µg/kg	0.25	4
2,4-DiNPhenol	51285	µg/kg	0	4
D[a,h]anthracen	53703	µg/kg	0.041	4
CCl4	56235	µg/kg	0	4
B[a]anthracene	56553	µg/kg	0.27	4
Lindane	58899	µg/kg	0	4
Dieldrin	60571	µg/kg	0	4
Aniline	62533	µg/kg	0	4
N-NitrosDMA	62759	µg/kg	0	4
[D] Acetone	67641	µg/kg	132	4
Chloroform	67663	µg/kg	0	4
HexaClEthane	67721	µg/kg	0	4
Benzene	71432	µg/kg	0.07	4
1,1,1-TCA	71556	µg/kg	0	4
DDD	72548	µg/kg	0	4
DiClDiPhEthylen	72559	µg/kg	0	4
Methyl Bromide	74839	µg/kg	0	4
Methyl Chloride	74873	µg/kg	0	4
MethyleneBromid	74953	µg/kg	0	4
Ethyl Chloride	75003	µg/kg	0	4
Vinyl Chloride	75014	µg/kg	0.062	4
Methylene Chlor	75092	µg/kg	2.3	4
CS2	75150	µg/kg	0	4

Vanadium	7440622	39.6	58	51.5	66.4		66.4
Vinyl Acetate	108054			0			0
Vinyl Chloride	75014	0.004		0.062			0.062
Vinylid Chlorid	75354	0.000324	0.00109	0.0033	0.00097		0.0033
Xylenes	1330207	0.417	0.034	6.2	0.011		6.2
Zinc	7440666	546	186	2800	160	100	2800
betaHexClCycHx	319857					0.000072	0.000072
Chlordane	57749					0.00196	0.00196
HexClCycHexanes	608731					0.0000555	0.0000555
Cl-phenoxy herb	1065					0.142	0.142

Chemical Name	CAS No.	Units	Max Conc	Group No.
Bromoform	75252	µg/kg	0	4
BromoDiClMethan	75274	µg/kg	0	4
1,1-DiClEthane	75343	µg/kg	0	4
Vinylid Chlorid	75354	µg/kg	0.0033	4
t-Butyl Alcohol	75650	µg/kg	0	4
TriClFluorMetha	75694	µg/kg	0	4
DiClDiFlmethane	75718	µg/kg	0	4
CFC-113	76131	µg/kg	0	4
Heptachlor	76448	µg/kg	0	4
HexClCycPentadi	77474	µg/kg	0	4
Isophorone	78591	µg/kg	0	4
1,2-DiClPropane	78875	µg/kg	0	4
MEK	78933	µg/kg	4.4	4
1,1,2TriClEthan	79005	µg/kg	0	4
TCE	79016	µg/kg	84	4
TetraClEthane	79345	µg/kg	0	4
Acenaphthene	83329	µg/kg	0.021	4
DiethylPhthalat	84662	µg/kg	0	4
DiButyl Phthal	84742	µg/kg	0.0828	4
Phenanthrene	85018	µg/kg	0.25	4
ButylBenzPhthal	85687	µg/kg	0.0051	4
N-NitrosDiPhAmi	86306	µg/kg	0	4
Fluorene	86737	µg/kg	0.0098	4
HexaClButadiene	87683	µg/kg	0	4
PCP	87865	µg/kg	0	4
2,4,6TriClPhenl	88062	µg/kg	0	4
2-NitroPhenol	88755	µg/kg	0	4
Naphthalene	91203	µg/kg	0.07	4
2MeNaphthalene	91576	µg/kg	0.041	4
3,3'DiClBenzidn	91941	µg/kg	0	4
Benzidine	92875	µg/kg	0	4
o-Xylene	95476	µg/kg	0.006	4
o-Cresol	95487	µg/kg	0	4
1,2-DiClBenzene	95501	µg/kg	0	4
2-Chlorophenol	95578	µg/kg	0	4
1,2,4TriMeBenze	95636	µg/kg	0.002	4
2,4,5TriClPhenl	95954	µg/kg	0	4
DBCP	96128	µg/kg	0.009	4
1,2,3TriClPropn	96184	µg/kg	0	4
Cumene	98828	µg/kg	0	4
Nitrobenzene	98953	µg/kg	0	4
4-Nitrophenol	100027	µg/kg	0	4
Ethyl Benzene	100414	µg/kg	0.22	4
Styrene	100425	µg/kg	0	4
Azobenzene	103333	µg/kg	0	4
2,4-DiMePhenol	105679	µg/kg	0	4
p-Cresol	106445	µg/kg	0	4
p-DiClBenzene	106467	µg/kg	0.000267	4
p-Chloroaniline	106478	µg/kg	0	4
EDB	106934	µg/kg	0	4
Vinyl Acetate	108054	µg/kg	0	4
MIBK	108101	µg/kg	0	4
Toluene	108883	µg/kg	0.008	4
Chlorobenzn	108907	µg/kg	0	4
Phenol	108952	µg/kg	0	4
Bis(2ClEth)Ethr	111444	µg/kg	0	4
Di2-EthHxPhthal	117817	µg/kg	0.4	4

Chemical Name	CAS No.	**Units**	**Max Conc**	**Group No.**
n-DiOctylPhthal	117840	µg/kg	0.0035	4
HexaClBenzene	118741	µg/kg	0	4
Anthracene	120127	µg/kg	0.064	4
1,2,4TriClBenz	120821	µg/kg	0	4
2,4-DiClPhenol	120832	µg/kg	0	4
2,4-DiNitToluen	121142	µg/kg	0	4
1,4-Dioxane	123911	µg/kg	0	4
ChloroDiBrMetha	124481	µg/kg	0	4
Perc	127184	µg/kg	0.002	4
Pyrene	129000	µg/kg	0.46	4
DimethylPhthala	131113	µg/kg	0.00061	4
Dibenzofuran	132649	µg/kg	0	4
B[g,h,i]perylen	191242	µg/kg	0.13	4
In[1,2,3-cd]pyr	193395	µg/kg	0.12	4
B[b]fluoranthen	205992	µg/kg	0.3	4
Fluoranthene	206440	µg/kg	0.51	4
B[k]fluoranthen	207089	µg/kg	0.11	4
Acenaphthylene	208968	µg/kg	0.0055	4
Chrysene	218019	µg/kg	0.29	4
Aldrin	309002	µg/kg	0	4
alphaHexClCycHx	319846	µg/kg	0	4
4,6-DiNiCresol	534521	µg/kg	0	4
1,2-DiClEthylen	540590	µg/kg	14	4
1,3-DiClBenzene	541731	µg/kg	0	4
1,3-DiClPropene	542756	µg/kg	0	4
2,6-DiNitToluen	606202	µg/kg	0	4
N-NitrosDPrAmin	621647	µg/kg	0	4
HeptachloEpoxid	1024573	µg/kg	0	4
Xylenes	1330207	µg/kg	6.2	4
PCBs	1336363	µg/kg	0.69	4
Me t-ButylEther	1634044	µg/kg	0	4
1-8OctaCDD	3268879	pg/g	6140	4
Aluminum	7429905	mg/kg	21000	4
Lead	7439921	mg/kg	890	4
Manganese	7439965	mg/kg	205	4
Mercury	7439976	mg/kg	0.14	4
Nickel	7440020	mg/kg	30.1	4
Silver	7440224	mg/kg	0.52	4
Thallium	7440280	mg/kg	0.73	4
Antimony	7440360	mg/kg	3.4	4
Arsenic	7440382	mg/kg	11	4
Barium	7440393	mg/kg	140	4
Beryllium	7440417	mg/kg	0.83	4

Chemical Name	CAS No.	**Units**	**Max Conc**	**Group No.**
Cadmium	7440439	mg/kg	49	4
Chromium	7440473	mg/kg	100	4
Cobalt	7440484	mg/kg	19	4
Copper	7440508	mg/kg	71	4
Vanadium	7440622	mg/kg	51.5	4
Zinc	7440666	mg/kg	2800	4
Selenium	7782492	mg/kg	1.5	4
Cr(VI)	18540299	mg/kg		4
1-3,7-9HxCDD	19408743	pg/g	20.6	4
1-4,6-8HpCDD	35822469	pg/g	536	4
1-8OctaCDF	39001020	pg/g	158	4
1-4,7,8HxCDD	39227286	pg/g	9.53	4
1-3,7,8PeCDD	40321764	pg/g	6.32	4
2,3,7,8-TCDF	51207319	pg/g	12.9	4
1-4,7-9HpCDF	55673897	pg/g	2.22	4
2-4,7,8PeCDF	57117314	pg/g	4.69	4
1-3,7,8PeCDF	57117416	pg/g	8.3	4
1-3,6-8HxCDF	57117449	pg/g	4.8	4
1-3,6-8HxCDD	57653857	pg/g	30.7	4
2-4,6-8HxCDF	60851345	pg/g	8.4	4
1-4,6-8HpCDF	67562394	pg/g	71.9	4
1-4,7,8HxCDF	70648269	pg/g	8.6	4
1-3,7-9HxCDF	72918219	pg/g	0.748	4
Fluorides&cmpds	1101	mg/kg	3.08	9
SULFATES	9960	mg/kg	56.1	9
Formaldehyde	50000	mg/kg	25.6	9
B[a]P	50328	mg/kg	0.0182	9
D[a,h]anthracen	53703	mg/kg	0.0108	9
B[a]anthracene	56553	mg/kg	0.0132	9
N-NitrosDMA	62759	mg/kg	0.00862	9
[D] Acetone	67641	mg/kg	132	9
Benzene	71432	mg/kg	0.00732	9
Methylene Chlor	75092	mg/kg	0.00522	9
BromoDiClMethan	75274	mg/kg	0.007	9
Vinylid Chlorid	75354	mg/kg	0.00097	9
TriClFluorMetha	75694	mg/kg	0.002	9
MEK	78933	mg/kg	0.035	9
TCE	79016	mg/kg	3.63	9
Acenaphthene	83329	mg/kg	0.417	9
DiethylPhthalat	84662	mg/kg	0.041	9
DiButyl Phthal	84742	mg/kg	0.00893	9
Phenanthrene	85018	mg/kg	1.8	9
ButylBenzPhthal	85687	mg/kg	0.0127	9
Fluorene	86737	mg/kg	0.563	9
Naphthalene	91203	mg/kg	2	9
2MeNaphthalene	91576	mg/kg	5.71	9
o-Xylene	95476	mg/kg	0.004	9
1,2,4TriMeBenze	95636	mg/kg	0.004	9
Ethyl Benzene	100414	mg/kg	0.0314	9
Styrene	100425	mg/kg	0.000327	9
Toluene	108883	mg/kg	0.1	9
Chlorobenzn	108907	mg/kg	0.005	9
Di2-EthHxPhthal	117817	mg/kg	0.425	9
n-DiOctylPhthal	117840	mg/kg	0.132	9
Anthracene	120127	mg/kg	0.441	9
Pyrene	129000	mg/kg	0.0899	9
DimethylPhthala	131113	mg/kg	0.315	9

Chemical Name	CAS No.	**Units**	**Max Conc**	**Group No.**
B[g,h,i]perylen	191242	mg/kg	0.0254	9
In[1,2,3-cd]pyr	193395	mg/kg	0.0177	9
Perylene	198550	mg/kg	0.028	9
B[b]fluoranthen	205992	mg/kg	0.0286	9
Fluoranthene	206440	mg/kg	0.0489	9
B[k]fluoranthen	207089	mg/kg	0.0127	9
Acenaphthylene	208968	mg/kg	0.274	9
Chrysene	218019	mg/kg	0.0232	9
1,2-DiClEthylen	540590	mg/kg	0.00205	9
Xylenes	1330207	mg/kg	0.011	9
PCBs	1336363	mg/kg	0.742	9
1-8OctaCDD	3268879	mg/kg	0.00899	9
Aluminum	7429905	mg/kg	29300	9
Lead	7439921	mg/kg	25	9
Manganese	7439965	mg/kg	586	9
Mercury	7439976	mg/kg	0.117	9
Nickel	7440020	mg/kg	36.5	9
Silver	7440224	mg/kg	79.7	9
Thallium	7440280	mg/kg	0.44	9
Antimony	7440360	mg/kg	2.16	9
Arsenic	7440382	mg/kg	8.68	9
Barium	7440393	mg/kg	161	9
Beryllium	7440417	mg/kg	0.984	9
Cadmium	7440439	mg/kg	1.33	9
Chromium	7440473	mg/kg	52.6	9
Cobalt	7440484	mg/kg	9.87	9
Copper	7440508	mg/kg	43.2	9
Vanadium	7440622	mg/kg	66.4	9
Zinc	7440666	mg/kg	160	9
Selenium	7782492	mg/kg	0.779	9
Cr(VI)	18540299	mg/kg	6.2	9
1-3,7-9HxCDD	19408743	mg/kg	1.76E-08	9
1-4,6-8HpCDD	35822469	mg/kg	0.00000112	9
1-8OctaCDF	39001020	mg/kg	0.000000334	9
1-4,7,8HxCDD	39227286	mg/kg	8.77E-09	9
PCB 189	39635319	mg/kg	0.00319	9
1-3,7,8PeCDD	40321764	mg/kg	3.9E-09	9
2,3,7,8-TCDF	51207319	mg/kg	3.62E-08	9
1-4,7-9HpCDF	55673897	mg/kg	1.35E-08	9
2-4,7,8PeCDF	57117314	mg/kg	5.79E-09	9
1-3,7,8PeCDF	57117416	mg/kg	9.57E-09	9
1-3,6-8HxCDF	57117449	mg/kg	7.96E-09	9
1-3,6-8HxCDD	57653857	mg/kg	3.38E-08	9

Chemical Name	CAS No.	**Units**	**Max Conc**	**Group No.**
2-4,6-8HxCDF	60851345	mg/kg	0.000009	9
1-4,6-8HpCDF	67562394	mg/kg	0.000138	9
1-4,7,8HxCDF	70648269	mg/kg	8.61E-09	9
1-3,7-9HxCDF	72918219	mg/kg	2.29E-09	9
Antimony	7440360	mg/kg	8.6	DOE
Cadmium	7440439	mg/kg	0.38	DOE
Cr(VI)	18540299	mg/kg	0.84	DOE
Lead	7439921	mg/kg	180	DOE
Mercury	7439976	mg/kg	0.83	DOE
Selenium	7782492	mg/kg	0.49	DOE
Silver	7440224	mg/kg	0.46	DOE
Zinc	7440666	mg/kg	100	DOE
2MeNaphthalene	91576	mg/kg	0.67	DOE
Acenaphthene	83329	mg/kg	0.18	DOE
Anthracene	120127	mg/kg	0.13	DOE
B[a]anthracene	56553	mg/kg	0.29	DOE
B[a]P	50328	mg/kg	0.22	DOE
B[b]fluoranthen	205992	mg/kg	0.26	DOE
B[e]pyrene	192972	mg/kg	0.082	DOE
B[g,h,i]perylen	191242	mg/kg	0.2	DOE
B[k]fluoranthen	207089	mg/kg	0.16	DOE
Chrysene	218019	mg/kg	0.22	DOE
D[a,h]anthracen	53703	mg/kg	0.039	DOE
n-DiOctylPhthal	117840	mg/kg	0.29	DOE
Fluoranthene	206440	mg/kg	0.64	DOE
Fluorene	86737	mg/kg	0.094	DOE
In[1,2,3-cd]pyr	193395	mg/kg	0.26	DOE
Naphthalene	91203	mg/kg	0.076	DOE
N-NitrosDMA	62759	mg/kg	0.058	DOE
Phenanthrene	85018	mg/kg	0.49	DOE
Pyrene	129000	mg/kg	0.52	DOE
PCBs	1336363	mg/kg	0.15	DOE
PCBs	1336363	mg/kg	0.14	DOE
PCBs	1336363	mg/kg	0.17	DOE
DDD	72548	mg/kg	0.0000935	DOE
DiClDiPhEthylen	72559	mg/kg	0.00179	DOE
DDT	50293	mg/kg	0.00248	DOE
betaHexClCycHx	319857	mg/kg	0.000072	DOE
Chlordane	57749	mg/kg	0.00196	DOE
HexClCycHexanes	608731	mg/kg	0.0000555	DOE
Dieldrin	60571	mg/kg	0.0000808	DOE
Cl-phenoxy herb	1065	mg/kg	0.142	DOE

Santa Susana Field Laboratory

Chemical List

← **These numbers will be used to calculate emissions for HARP Input. Taken from Combined Conc Data tab and Dioxins tab.**

No.	Row Labels	CAS No.	Max		
1	**[D] Acetone**	67641	132		
2	**1,1,1-TCA**	71556	0.325		
3	**1,1,2TriClEthan**	79005	0.00206		
4	**1,1-DiClEthane**	75343	0		
5	**1,2,3TriClPropn**	96184	0		
6	**1,2,4TriClBenz**	120821	0.007		
7	**1,2,4TriMeBenze**	95636	5.4		
8	**1,2-DiClBenzene**	95501	0.00703		
9	**1,2-DiClEthylen**	540590	14		
10	**1,2-DiClPropane**	78875	0.000314		
11	**1,3-DiClBenzene**	541731	0.0006		
12	**1,3-DiClPropene**	542756	0		
13	**1,4-Dioxane**	123911	0.02		
14	**1-3,6-8HxCDD**	57653857		30.7	Dioxins
15	**1-3,6-8HxCDF**	57117449		4.8	Dioxins
16	**1-3,7,8PeCDD**	40321764		6.32	Dioxins
17	**1-3,7,8PeCDF**	57117416		8.3	Dioxins
18	**1-3,7-9HxCDD**	19408743		20.6	Dioxins
19	**1-3,7-9HxCDF**	72918219		0.748	Dioxins
20	**1-4,6-8HpCDD**	35822469		536	Dioxins
21	**1-4,6-8HpCDF**	67562394		71.9	Dioxins
22	**1-4,7,8HxCDD**	39227286		9.53	Dioxins
23	**1-4,7,8HxCDF**	70648269		8.6	Dioxins
24	**1-4,7-9HpCDF**	55673897		2.22	Dioxins
25	**1-8OctaCDD**	3268879		6140	Dioxins
26	**1-8OctaCDF**	39001020		158	Dioxins
27	**2,3,7,8-TCDF**	51207319		12.9	Dioxins
28	**2,4,5TriClPhenl**	95954	0		
29	**2,4,6TriClPhenl**	88062	0		
30	**2,4-DiClPhenol**	120832	0		
31	**2,4-DiMePhenol**	105679	11.5		
32	**2,4-DiNitToluen**	121142	0		
33	**2,4-DiNPhenol**	51285	0		
34	**2,6-DiNitToluen**	606202	0		
35	**2-4,6-8HxCDF**	60851345		8.4	Dioxins
36	**2-4,7,8PeCDF**	57117314		4.69	Dioxins
37	**2-Chlorophenol**	95578	0		
38	**2MeNaphthalene**	91576	5.71		
39	**2-NitroPhenol**	88755	0		
40	**3,3'DiClBenzidn**	91941	0		
41	**4,6-DiNiCresol**	534521	0		
42	**4-Nitrophenol**	100027	0		

← These numbers will be used to calculate emissions for HARP Input. Taken from Combined Conc Data tab and Dioxins tab.

No.	Row Labels	CAS No.	Max
43	**Acenaphthene**	83329	0.417
44	**Acenaphthylene**	208968	0.274
45	**Aldrin**	309002	0
46	**alphaHexClCycHx**	319846	0
47	**Aluminum**	7429905	29300
48	**Aniline**	62533	0
49	**Anthracene**	120127	0.441
50	**Antimony**	7440360	41.5
51	**Arsenic**	7440382	11
52	**Azobenzene**	103333	0
53	**B[a]anthracene**	56553	0.29
54	**B[a]P**	50328	0.341
55	**B[b]fluoranthen**	205992	0.383
56	**B[e]pyrene**	192972	0.082
57	**B[g,h,i]perylen**	191242	0.2
58	**B[k]fluoranthen**	207089	0.16
59	**Barium**	7440393	681
60	**Benzene**	71432	0.07
61	**Benzidine**	92875	0.347
62	**Beryllium**	7440417	1.4
63	**Bis(2ClEth)Ethr**	111444	0
64	**BromoDiClMethan**	75274	0.009
65	**Bromoform**	75252	0
66	**ButylBenzPhthal**	85687	0.127
67	**Cadmium**	7440439	20.6
68	**CCl4**	56235	0
69	**CFC-113**	76131	0
70	**Chlorobenzn**	108907	0.271
71	**ChloroDiBrMetha**	124481	0
72	**Chloroform**	67663	0.003
73	**Chromium**	7440473	1420
74	**Chrysene**	218019	0.29
75	**Cobalt**	7440484	19
76	**Copper**	7440508	234
77	**Cr(VI)**	18540299	0.84
78	**CS2**	75150	0
79	**Cumene**	98828	0.381
80	**D[a,h]anthracen**	53703	0.041
81	**DBCP**	96128	0.009
82	**DDD**	72548	0.0000935

← These numbers will be used to calculate emissions for HARP Input. Taken from Combined Conc Data tab and Dioxins tab.

No.	Row Labels	CAS No.	Max
83	DDT	50293	0.00248
84	Di2-EthHxPhthal	117817	20.8
85	Dibenzofuran	132649	0
86	DiButyl Phthal	84742	268
87	DiClDiFlmethane	75718	0
88	DiClDiPhEthylen	72559	0.00179
89	Dieldrin	60571	0.0000808
90	DiethylPhthalat	84662	0.041
91	DimethylPhthala	131113	0.315
92	EDB	106934	0
93	Ethyl Benzene	100414	0.22
94	Ethyl Chloride	75003	0
95	Fluoranthene	206440	0.64
96	Fluorene	86737	0.563
97	Fluorides&cmpds	1101	570
98	Formaldehyde	50000	29
99	HeptachloEpoxid	1024573	0
100	Heptachlor	76448	0
101	HexaClBenzene	118741	0
102	HexaClButadiene	87683	0
103	HexaClEthane	67721	0
104	HexClCycPentadi	77474	0
105	In[1,2,3-cd]pyr	193395	0.264
106	Isophorone	78591	0
107	Lead	7439921	180
108	Lindane	58899	0
109	Manganese	7439965	2700
110	m-Cresol	108394	43
111	Me t-ButylEther	1634044	0
112	MEK	78933	4.4
113	Mercury	7439976	1.67
114	Methyl Bromide	74839	0.0005
115	Methyl Chloride	74873	0.00204
116	Methylene Chlor	75092	2.3
117	MethyleneBromid	74953	0
118	MIBK	108101	0.00313
119	Naphthalene	91203	2
120	n-DiOctylPhthal	117840	2.6
121	Nickel	7440020	36.5
122	Nitrobenzene	98953	0
123	N-NitrosDiPhAmi	86306	0.35
124	N-NitrosDMA	62759	0.058
125	N-NitrosDPrAmin	621647	0
126	o-Cresol	95487	1.05
127	o-Xylene	95476	0.252

← These numbers will be used to calculate emissions for HARP Input. Taken from Combined Conc Data tab and Dioxins tab.

No.	Row Labels	CAS No.	Max
128	**PCB 189**	39635319	0.00319
129	**PCBs**	1336363	5.46
130	**p-Chloroaniline**	106478	0
131	**PCP**	87865	0
132	**p-Cresol**	106445	0
133	**p-DiClBenzene**	106467	0.178
134	**Perc**	127184	0.183
135	**Perylene**	198550	0.028
136	**Phenanthrene**	85018	1.8
137	**Phenol**	108952	2.84
138	**Pyrene**	129000	0.52
139	**Selenium**	7782492	2.66
140	**Silver**	7440224	79.7
141	**Styrene**	100425	0.00788
142	**SULFATES**	9960	56.1
143	**t-Butyl Alcohol**	75650	0
144	**TCE**	79016	84
145	**TetraClEthane**	79345	0
146	**Thallium**	7440280	0.73
147	**Toluene**	108883	0.1
148	**TriClFluorMetha**	75694	0.003
149	**Vanadium**	7440622	66.4
150	**Vinyl Acetate**	108054	0
151	**Vinyl Chloride**	75014	0.062
152	**Vinylid Chlorid**	75354	0.0033
153	**Xylenes**	1330207	6.2
154	**Zinc**	7440666	2800
155	**betaHexClCycHx**	319857	0.000072
156	**Chlordane**	57749	0.00196
157	**HexClCycHexanes**	608731	0.0000555
158	**Cl-phenoxy herb**	1065	0.142
159	**2,3,7,8-TCDD**	1746016	0.0001058

Santa Susana Field Laboratory

List of Hotspots and Chemicals

Please see file titled "Hotspots - Fugitive Dust.xlsx" for calculations

Chemical	Concentration (mg/kg)	Location	Total Acres	PM10 (lbs/year)	Chemical Emissions (lbs/year)	Notes		
Cadmium	49	Group 4, Coca site. Test Stand 4	16	416.4	2.0E-02	Page 3-2 of Group 4 RCRA Facility Investigation Report	ASNSR1	Test stand 4 is within the COCA
Cr(VI)	6.2	Group 9, Silvernale.	11.8	321.0	2.0E-03	Page 1-8 of SSFL Group9_RI Report	ASDSR1	site area
Lead	341	Group 2	21.9	550.3	1.9E-01	Page 1-14 of SSFL_GRP2_RFI_Text.pdf	ASDSR1	
Lead	890	Group 4, Coca site	16	416.4	3.7E-01	Page 3-2 of Group 4 RCRA Facility Investigation Report	ASNSR2	
2, 3, 7, 8 - TCDD	4.2E-04	Group 2, ELV	8.6	248.3	1.0E-07	Page 1-14 of SSFL_GRP2_RFI_Text.pdf	ASNSR1	
2, 3, 7, 8 - TCDD	6.5E-04	Group 3, Building 204	4	143.9	9.4E-08	Page 1-18 of SSFL_GRP3_RFIText.pdf	ASBSR3	

Santa Susana Field Laboratory
Dioxins List

These values are taken from the file "Dioxin TEQ Summary.xlsx". **Use this for HARP**

Group No.	Area	Units	Maximum Detected Concentration	Representative Concentration (mg/kg)	Percent of Maximum
4	Coca	mg/kg	1.8E-05	**1.1E-04**	3%
4	Delta	mg/kg	2.1E-05		3%
4	PLF	mg/kg	1.5E-06		0%
9	Silvernale	mg/kg	2.2E-08		0%
9	Silvernale	mg/kg	3.5E-08		0%
9	Silvernale	mg/kg	2.8E-08		0%
9	CDFF	mg/kg	3.0E-05		5%
9	CDFF	mg/kg	4.9E-05		8%
9	CDFF	mg/kg	2.7E-05		4%
3	Building 204	mg/kg	6.5E-04		100%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	Building 204	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	4.7E-07		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	ABFF	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	3.8E-05		6%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Bravo	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	1.1E-04		16%
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%

Group No.	Area	Units	Maximum Detected Concentration	Representative Concentration (mg/kg)	Percent of Maximum
3	Alfa	mg/kg	0.0E+00		0%
3	Alfa	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	2.8E-06		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
3	Skyline Road	mg/kg	0.0E+00		0%
DOE	3	mg/kg	3.5E-06		1%
DOE	5A	mg/kg	7.1E-06		1%
DOE	5B	mg/kg	6.3E-06		1%
DOE	5C	mg/kg	6.7E-06		1%
DOE	5D	mg/kg	4.4E-06		1%
DOE	6	mg/kg	1.5E-05		2%
DOE	7	mg/kg	6.5E-06		1%
DOE	8	mg/kg	1.8E-06		0%
DOE	NBZ	mg/kg	3.0E-06		0%
2	Area II	mg/kg	5.9E-06		1%
2	Area II	mg/kg	1.6E-05		3%
2	Area II	mg/kg	1.4E-05		2%
2	Ash Pile	mg/kg	4.1E-06		1%
2	Ash Pile	mg/kg	4.0E-06		1%
2	Ash Pile	mg/kg	4.9E-06		1%
2	LOX	mg/kg	2.0E-06		0%
2	LOX	mg/kg	2.0E-06		0%
2	LOX	mg/kg	1.3E-06		0%
2	ELV	mg/kg	2.6E-04		39%
2	ELV	mg/kg	3.8E-04		58%
2	ELV	mg/kg	4.2E-04		64%

Santa Susana Field Laboratory
Health Table - Mitigated

Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
108171262	Chlorinated paraffins (average chain length, C12; approx. 60% Cl by weight)	ChlorParaffins	0.089						FALSE	1
86220420	Nafarelin acetate	Nafarelin Aceta							FALSE	1
77501634	Lactofen	Lactofen							FALSE	1
76180966	IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	IQ							FALSE	1
74472370	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	PCB 114	3.9	3.9	1.3	0.00033			TRUE	1
72918219	1,2,3,7,8,9-Hexachlorodibenzofuran	1-3,7-9HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
70648269	1,2,3,4,7,8-Hexachlorodibenzofuran	1-4,7,8HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
70476823	Mitoxantrone hydrochloride	MitoxantroneHCl							FALSE	1
70362504	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	PCB 81	39	39	0.13	3.30E-05			TRUE	1
69782907	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	PCB 157	3.9	3.9	1.3	0.00033			TRUE	1
68006837	2-Amino-3-methyl-9H-pyrido[2,3-b] indole (MeA-alpha-C)	MeA-alpha-C							FALSE	1
67730114	Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d]imidazole)	Glu-P-1							FALSE	1
67730103	Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)	Glu-P-2							FALSE	1
67562394	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1-4,6-8HpCDF	1300	1300	0.004	1.00E-06			TRUE	1
65510443	2,3',4,4',5'-Pentachlorobiphenyl (PCB 123)	PCB 123	3.9	3.9	1.3	0.00033			TRUE	1
64091914	4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	4(N-NiMeAm)Buta							FALSE	1
62476599	Acifluorfen	Acifluorfen							FALSE	1
62450071	Trp-P-2 (3-Amino-1-methyl-5H-pyrido[4,3-b]indole)	Trp-P-2							FALSE	1
62450060	Trp-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)	Trp-P-1							FALSE	1
62015398	Misoprostol	Misoprostol							FALSE	1
60851345	2,3,4,6,7,8-Hexachlorodibenzofuran	2-4,6-8HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
60568050	Furmecyclox	Furmecyclox							FALSE	1
60153493	3-(N-Nitrosomethylamino)propionitrile	3(N-NitMeAm)Prp							FALSE	1
59467968	Midazolam hydrochloride	Midazolam HCl							FALSE	1
57835924	4-Nitropyrene	4-Nitropyrene	0.39	1.2					TRUE	1
57653857	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	1-3,6-8HxCDD	13000	13000	0.0004	1.00E-07			TRUE	1
57465288	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	PCB 126	13000	13000	0.0004	1.00E-07			TRUE	1
57117449	1,2,3,6,7,8-Hexachlorodibenzofuran	1-3,6-8HxCDF	13000	13000	0.0004	1.00E-07			TRUE	1
57117416	1,2,3,7,8-Pentachlorodibenzofuran	1-3,7,8PeCDF	3900	3900	0.0013	3.30E-07			TRUE	1
57117314	2,3,4,7,8-Pentachlorodibenzofuran	2-4,7,8PeCDF	39000	39000	0.00013	3.30E-08			TRUE	1
56391572	Netilmicin sulfate	NetilmicinSulfa							FALSE	1
55738540	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)vinyl-1,3,4-oxadiazol	trans-2DiMAmMIm							FALSE	1
55722275	Total Tetrachlorodibenzofuran	TotalTetraCDF							FALSE	1
55684941	Total Hexachlorodibenzofuran	TotalHexaCDF							FALSE	1
55673897	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1-4,7-9HpCDF	1300	1300	0.004	1.00E-06			TRUE	1
54965241	Tamoxifen citrate	TamoxifenCitrat							FALSE	1
54350480	Etretinate	Etretinate							FALSE	1
53973981	Polygeenan	Polygeenan							FALSE	1
52663726	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	PCB 167	3.9	3.9	1.3	0.00033			TRUE	1
51207319	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	13000	13000	0.0004	1.00E-07			TRUE	1
49842071	Tobramycin sulfate	TobramycinSulfa							FALSE	1
42397659	1,8-Dinitropyrene	1,8-DiNPyrene	3.9	12					TRUE	1
42397648	1,6-Dinitropyrene	1,6-DiNPyrene	39	120					TRUE	1
41903575	Total Tetrachlorodibenzo-p-dioxin	TotalTetraCDD							FALSE	1
41575944	Carboplatin	Carboplatin							FALSE	1
40321764	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1-3,7,8PeCDD	130000	130000	4.00E-05	1.00E-08			TRUE	1
39831555	Amikacin sulfate	AmikacinSulfate							FALSE	1
39635319	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	PCB 189	3.9	3.9	1.3	0.00033			TRUE	1
39300453	Dinocap	Dinocap							FALSE	1
39227286	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	1-4,7,8HxCDD	13000	13000	0.0004	1.00E-07			TRUE	1
39156417	2,4-Diaminoanisole sulfate	2,4-DiAmAnisSul							FALSE	1
39001020	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	1-8OctaCDF	39	39	0.13	3.30E-05			TRUE	1
38998753	Total Heptachlorodibenzofuran	TotalHeptaCDF							FALSE	1
38380084	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	PCB 156	3.9	3.9	1.3	0.00033			TRUE	1
37871004	Total Heptachlorodibenzo-p-dioxin	TotalHeptaCDD							FALSE	1
36791045	Ribavirin	Ribavirin							FALSE	1
36088229	Total Pentachlorodibenzo-p-dioxin	TotalPentaCDD							FALSE	1
35822469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	1-4,6-8HpCDD	1300	1300	0.004	1.00E-06			TRUE	1
34590948	Dipropylene glycol monomethyl ether	DPGME							FALSE	1
34465468	Total Hexachlorodibenzo-p-dioxin	TotalHexaCDD							FALSE	1
34256821	Acetochlor	Acetochlor							FALSE	1
33419420	Etoposide	Etoposide							FALSE	1
32774166	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	PCB 169	3900	3900	0.0013	3.30E-07			TRUE	1
32598144	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	PCB 105	3.9	3.9	1.3	0.00033			TRUE	1
32598133	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	PCB 77	13	13	0.4	0.0001			TRUE	1
31508006	2,3',4,4',5-Pentachlorobiphenyl	PCB 118	3.9	3.9	1.3	0.00033			TRUE	1
30402154	Total Pentachlorodibenzofuran	TotalPentaCDF							FALSE	1
28981977	Alprazolam	Alprazolam							FALSE	1
28911015	Triazolam	Triazolam							FALSE	1
28434868	3,3'-Dichloro-4,4'-diaminodiphenyl ether	3,3'DiClDAmPhEt							FALSE	1
26995915	Urofollitropin	Urofollitropin							FALSE	1
26471625	Toluene diisocyanates	TolueneDiisocyn	0.039		0.008		0.015	2	FALSE	1
26148685	A-alpha-C (2-Amino-9H-pyrido[2,3-b]indole)	A-alpha-C							FALSE	1
25551137	Trimethylbenzenes	TriMeBenzns							FALSE	1
25321226	Dichlorobenzenes (mixed isomers)	DiClBenzenes							FALSE	1
25321146	Dinitrotoluenes (mixed isomers)	DiNitroToluenes							FALSE	1
25265718	Dipropylene glycol	DPG							FALSE	1
25167833	Tetrachlorophenols	Tetrachloroph							FALSE	1
25154545	Dinitrobenzenes (mixtures of)	DinitroBenz(mix							FALSE	1
25013165	Butylated hydroxyanisole (BHA)	BHA							FALSE	1
24267569	Iodine-131	Iodine-131							FALSE	1
23541506	Daunorubicin hydrochloride	Daunorubic HCl							FALSE	1
23214928	Adriamycin	Adriamycin							FALSE	1
23092173	Halazepam	Halazepam							FALSE	1
21725462	Cyanazine	Cyanazine							FALSE	1
20830813	Daunomycin	Daunomycin							FALSE	1
20816120	Osmium tetroxide	OsmiumTetraOxid							FALSE	1
20325400	3,3'-Dimethoxybenzidine dihydrochloride	3,3'DiMeBenziHC							FALSE	1
19408743	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1-3,7-9HxCDD	13000	13000	0.0004	1.00E-07			TRUE	1
18883664	Streptozotocin	Streptozotocin							FALSE	1
18662538	Nitrilotriacetic acid, trisodium salt monohydrate	NitrTriAc,tri-s							FALSE	1
18540299	Chromium, hexavalent (& compounds)	Cr(VI)	510	0.5	0.2	0.02			TRUE	1
18378897	Plicamycin	Plicamycin							FALSE	1
17230885	Danazol	Danazol							FALSE	1
16568028	Gyromitrin	Gyromitrin							FALSE	1
16543558	N-Nitrosonornicotine	N-NitrosNornico							FALSE	1
16071866	Direct Brown 95 (technical grade)	DirBrown95	500						FALSE	1
15972608	Alachlor	Alachlor							FALSE	1
15663271	Cisplatin	Cisplatin							FALSE	1

Santa Susana Field Laboratory
Health Table - Mitigated

Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
15475566	Methotrexate sodium	MethotrexateSod							FALSE	1
14901087	Cycasin	Cycasin							FALSE	1
13909096	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (Methyl CCNU)	1(2CIEt)MeCCNU							FALSE	1
13765190	Calcium chromate	CalciumChromate	510	0.5	0.2	0.02			TRUE	0.3332
13647353	Trilostane	Trilostane							FALSE	1
13463406	Iron pentacarbonyl	IronPentaCrbnyl							FALSE	1
13463393	Nickel carbonyl	Ni Carbonyl	0.91		0.014	0.011	0.06	0.2	TRUE	0.3438
13311847	Flutamide	Flutamide							FALSE	1
13256229	N-Nitrososarcosine	N-NitrosSarcosi							FALSE	1
13121705	Cyhexatin	Cyhexatin							FALSE	1
13010474	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU)	1(2CIEt)CCNU							FALSE	1
12510428	Erionite	Erionite							FALSE	1
12427382	Maneb	Maneb							FALSE	1
12122677	Zineb	Zineb							FALSE	1
12054487	Nickel hydroxide	Ni Hydroxide	0.91		0.014	0.011	0.06	0.2	TRUE	0.6332
12035722	Nickel subsulfide	Ni Subsulfide	0.91		0.014	0.011	0.06	0.2	TRUE	0.2443
10595956	N-Nitrosomethylethylamine	N-NitrosMEAmine	22						FALSE	1
10588019	Sodium dichromate	SodiumDichromat	510	0.5	0.2	0.02			TRUE	0.397
10294403	Barium chromate	Barium Chromate	510	0.5	0.2	0.02			TRUE	0.2053
10102440	NITROGEN DIOXIDE	NITROGEN DIOXID						470	FALSE	1
10049044	Chlorine dioxide	ChlorineDioxide			0.6				FALSE	1
10048132	Sterigmatocystin	Sterigmatocysti							FALSE	1
10035106	Hydrogen bromide	HydrogBromide							FALSE	1
10034932	Hydrazine sulfate	HydrazineSulfat							FALSE	1
10028156	OZONE	OZONE						180	FALSE	1
10026138	Phosphorus pentachloride	Phos PentaChlor							FALSE	1
10025873	Phosphorus oxychloride	Phos OxyChlorid							FALSE	1
10024972	Nitrous oxide	Nitrogen oxide							FALSE	1
9006422	Metiram	Metiram							FALSE	1
9004664	Iron dextran complex	Iron Dextran Cm							FALSE	1
9002680	Menotropins	Menotropins							FALSE	1
8018017	Mancozeb	Mancozeb							FALSE	1
8014957	Oleum	Oleum						120	FALSE	1
8007452	Coal tars	Coal tars							FALSE	1
8001352	Toxaphene	Toxaphene							FALSE	1
7803512	Phosphine	Phosphine			0.8				FALSE	1
7789302	Bromine pentafluoride	BrominPentFlrid							FALSE	1
7789062	Strontium chromate	StrontiumChrom	510	0.5	0.2	0.02			TRUE	0.2554
7784421	Arsine	Arsine			0.015		0.015	0.2	FALSE	1
7783202	Ammonium sulfate	Ammon Sulfate							FALSE	1
7783075	Hydrogen selenide	HydrogSelenide						5	FALSE	1
7783064	Hydrogen sulfide	H2S			10			42	FALSE	1
7782505	Chlorine	Chlorine			0.2			210	FALSE	1
7782492	Selenium	Selenium			20	0.005			FALSE	1
7758976	Lead chromate	Lead Chromate	510	0.5	0.2	0.02			TRUE	0.1609
7758012	Potassium bromate	Potass Bromate	0.49						FALSE	1
7726956	Bromine	Bromine							FALSE	1
7723140	Phosphorus	Phosphorus							FALSE	1
7719122	Phosphorus trichloride	Phos TriChlorid							FALSE	1
7697372	Nitric acid	Nitric Acid						86	FALSE	1
7664939	Sulfuric acid	Sulfuric Acid			1			120	FALSE	1
7664417	Ammonia	NH3			200			3200	FALSE	1
7664393	Hydrogen fluoride	HF			14	0.04		240	TRUE	1
7664382	Phosphoric acid	Phosphoric Acid			7				FALSE	1
7647010	Hydrochloric acid	HCl			9			2100	FALSE	1
7550450	Titanium tetrachloride	Titanm TetraCl							FALSE	1
7496028	6-Nitrochrysene	6-Nitrochrysene	39	120					TRUE	1
7487947	Mercuric chloride	Mercuric Cl			0.03	0.00016	0.06	0.6	TRUE	1
7446719	Sulfur trioxide	Sulfur trioxide			1			120	FALSE	1
7446346	Selenium sulfide	Se Sulfide			20	0.005			FALSE	1
7446277	Lead phosphate	Lead Phosphate	0.042	0.0085					TRUE	0.7659
7446095	SULFUR DIOXIDE	SULFUR DIOXIDE						660	FALSE	1
7440666	Zinc	Zinc							FALSE	1
7440622	Vanadium (fume or dust)	Vanadium						30	FALSE	1
7440508	Copper	Copper						100	FALSE	1
7440484	Cobalt	Cobalt							FALSE	1
7440473	Chromium	Chromium							FALSE	1
7440439	Cadmium	Cadmium	15		0.02	0.0005			TRUE	1
7440417	Beryllium	Beryllium	8.4		0.007	0.002			TRUE	1
7440393	Barium	Barium							FALSE	1
7440382	Arsenic	Arsenic	12	1.5	0.015	3.50E-06	0.015	0.2	TRUE	1
7440360	Antimony	Antimony							FALSE	1
7440280	Thallium	Thallium							FALSE	1
7440224	Silver	Silver							FALSE	1
7440020	Nickel	Nickel	0.91		0.014	0.011	0.06	0.2	TRUE	1
7439976	Mercury	Mercury			0.03	0.00016	0.06	0.6	TRUE	1
7439965	Manganese	Manganese			0.09		0.17		FALSE	1
7439921	Lead	Lead	0.042	0.0085					TRUE	1
7429905	Aluminum	Aluminum							FALSE	1
6533002	Norgestrel	Norgestrel							FALSE	1
6484522	Ammonium nitrate	Ammon Nitrate							FALSE	1
6358538	Citrus Red No. 2	Citrus Red 2							FALSE	1
6164983	Chlordimeform	Chlordimeform							FALSE	1
6112761	Mercaptopurine	Mercaptopurine							FALSE	1
6109973	3-Amino-9-ethylcarbazole hydrochloride	3-Amino9ECarbz							FALSE	1
5522430	1-Nitropyrene	1-Nitropyrene	0.39	1.2					TRUE	1
5411223	Benzphetamine hydrochloride	Benzphetam HCl							FALSE	1
5216251	p-alpha,alpha,alpha-Tetrachlorotoluene	p-alphaTetClTol							FALSE	1
5160021	D and C Red No. 9	D&C Red 9							FALSE	1
4759482	Isotretinoin	Isotretinoin							FALSE	1
4680788	C. I. Acid Green 3	CI Acid Grn 3							FALSE	1
4549400	N-Nitrosomethylvinylamine	N-NitrosMeVAmin							FALSE	1
4342034	Dacarbazine	Dacarbazine							FALSE	1
4170303	Crotonaldehyde	Crotonaldehyde							FALSE	1
3963959	Methacycline hydrochloride	Methacyclin HCl							FALSE	1
3810740	Streptomycin sulfate	StreptomySulfat							FALSE	1
3778732	Ifosfamide	Ifosfamide							FALSE	1
3771195	Nafenopin	Nafenopin							FALSE	1
3761533	Ponceau MX	Ponceau MX							FALSE	1
3697243	5-Methylchrysene	5-MeChrysene	3.9	12					TRUE	1

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Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
3688537	AF-2	AF-2							FALSE	1
3570750	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	2(2FormHyd)Thia							FALSE	1
3564098	Ponceau 3R	Ponceau 3R							FALSE	1
3546109	Phenesterin	Phenesterin							FALSE	1
3468631	D and C Orange No. 17	D&C Orange 17							FALSE	1
3333673	Nickel carbonate	Ni Carbonate	0.91		0.014	0.011	0.06	0.2	TRUE	0.4945
3268879	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	1-8OctaCDD	39	39	0.13	3.30E-05			TRUE	1
3068880	beta-Butyrolactone	beta-Butyrolact							FALSE	1
2832408	C. I. Disperse Yellow 3	CI DispYellw3							FALSE	1
2807309	Ethylene glycol monopropyl ether	EGPE							FALSE	1
2795393	Perfluorooctanoic acid (PFOA) {and its salts, esters, and sulfonates)	PFOA	0	0	0	0		0	FALSE	1
2784943	HC Blue 1	HC Blue 1							FALSE	1
2646175	Oil Orange SS	Oil Orange SS							FALSE	1
2602462	Direct Blue 6	DirBlue6	500						FALSE	1
2551624	Sulfur hexafluoride	SF6							FALSE	1
2475458	Disperse Blue 1	DisperseBlue1							FALSE	1
2425061	Captafol	Captafol							FALSE	1
2385855	Mirex	Mirex							FALSE	1
2303164	Diallate	Diallate							FALSE	1
2234131	Octachloronaphthalene	OctaClNaphthal							FALSE	1
2164172	Fluometuron	Fluometuron							FALSE	1
2092560	D and C Red No. 8	D&C Red 8							FALSE	1
2068782	Vincristine sulfate	VincristineSulf							FALSE	1
1937377	Direct Black 38	DirBlack38	500						FALSE	1
1897456	Chlorothalonil	Chlorothalonil							FALSE	1
1836755	Nitrofen (technical grade)	Nitrofen(tech)							FALSE	1
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD	130000	130000	4.00E-05	1.00E-08			TRUE	1
1694093	Benzyl violet 4B	BenzylViolet4B							FALSE	1
1689845	Bromoxynil	Bromoxynil							FALSE	1
1634044	Methyl tert-butyl ether	Me t-ButylEther	0.0018		8000				FALSE	1
1620219	Chlorcyclizine hydrochloride	Chlorcycliz HCl							FALSE	1
1615801	1,2-Diethylhydrazine	1,2-DiEthHydraz							FALSE	1
1596845	Daminozide	Daminozide							FALSE	1
1582098	Trifluralin	Trifluralin							FALSE	1
1464535	Diepoxybutane	DiEpoxyButane							FALSE	1
1405103	Neomycin sulfate	NeomycinSulfate							FALSE	1
1344281	Aluminum oxide (fibrous)	Alumin Oxide							FALSE	1
1336363	PCBs {Polychlorinated biphenyls}	PCBs	2	2					TRUE	1
1335871	Hexachloronaphthalene	HexaClNaphthale							FALSE	1
1335326	Lead subacetate	Lead Subacetate	0.042	0.0085					TRUE	0.7696
1333820	Chromium trioxide	ChromiumTriOxid	510	0.5	0.002	0.02			TRUE	0.52
1332214	Asbestos	Asbestos	220						FALSE	333.333
1330207	Xylenes (mixed)	Xylenes			700			22000	FALSE	1
1319773	Cresols (mixtures of) {Cresylic acid}	Cresols			600				FALSE	1
1314621	Vanadium pentoxide	Vanad pentoxd						30	FALSE	1
1314563	Phosphorus pentoxide	Phos Pentoxide							FALSE	1
1314201	Thorium dioxide	ThoriumDioxide							FALSE	1
1314132	Zinc oxide	Zinc Oxide							FALSE	0.8034
1313991	Nickel oxide	Ni Oxide	0.91		0.02	0.011	0.06	0.2	TRUE	0.7859
1313275	Molybdenum trioxide	Molybd TriOxide							FALSE	1
1310732	Sodium hydroxide	Sodium Hydroxid						8	FALSE	1
1309644	Antimony trioxide	Antim TriOxide							FALSE	1
1271289	Nickelocene	Nickelocene	0.91		0.014	0.011	0.06	0.2	TRUE	0.49365
1163195	Decabromodiphenyl oxide	DecaBrDiPhenOx							FALSE	1
1120714	1,3-Propane sultone	1,3-PropSultone	2.4						FALSE	1
1116547	N-Nitrosodiethanolamine	N-NitrosEthnlAm							FALSE	1
1024573	Heptachlor epoxide	HeptachloEpoxid							FALSE	1
989388	C. I. Basic Red 1	CI BasicRed 1							FALSE	1
961115	Tetrachlorvinphos	Tetrachlorvinph							FALSE	1
930552	N-Nitrosopyrrolidine	N-NitrosPyrroli	2.1						FALSE	1
924425	N-Methyloacrylamide	N-MethyloAcryla							FALSE	1
924163	N-Nitrosodi-n-butylamine	N-NitrosDBuAmin	11						FALSE	1
919164	Lithium citrate	LithiumCitrate							FALSE	1
846504	Temazepam	Temazepam							FALSE	1
846491	Lorazepam	Lorazepam							FALSE	1
838880	4,4'-Methylene bis(2-methylaniline)	4,4'MeBis2MeAni							FALSE	1
822060	Hexamethylene-1,6-diisocyanate	HexaMeDiisocyan							FALSE	1
811972	1,1,1,2-Tetrafluoroethane (HFC-134a)	TetraFluorEthan							FALSE	1
794934	Panfuran S	Panfuran S							FALSE	1
765344	Glycidaldehyde	Glycidaldehyde							FALSE	1
764410	1,4-Dichloro-2-butene	1,4-DiCl2Butene							FALSE	1
759739	N-Nitroso-N-ethylurea	N-NitrosNEtUrea							FALSE	1
712685	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	2-Amin(NiFur)Th							FALSE	1
684935	N-Nitroso-N-methylurea	N-NitrosNMeUrea							FALSE	1
680319	Hexamethylphosphoramide	HexaMePhosAmide							FALSE	1
636215	o-Toluidine hydrochloride	o-Toluid HCl							FALSE	1
630933	Diphenylhydantoin	DiPhenylHydant							FALSE	1
630080	Carbon monoxide	Carbon Monoxide						23000	FALSE	1
629141	Ethylene glycol diethyl ether	EGDEE							FALSE	1
624839	Methyl isocyanate	Methyl Isocyana			1				FALSE	1
621647	N-Nitrosodi-n-propylamine	N-NitrosDPrAmin	7						FALSE	1
615532	N-Nitroso-N-methylurethane	N-NitrosMUretha							FALSE	1
615054	2,4-Diaminoanisole	2,4-DiAminAniso	0.023						FALSE	1
613354	N,N'-Diacetylbenzidine	NN'DiAceBenzdin							FALSE	1
608731	Hexachlorocyclohexanes (mixed or technical grade)	HexClCycHexanes	4	4					TRUE	1
607578	2-Nitrofluorene	2-Nitrofluorene	0.039	0.12					TRUE	1
606202	2,6-Dinitrotoluene	2,6-DiNitToluen							FALSE	1
602879	5-Nitroacenaphthene	5-NitroaceNapht	0.13	0.13					TRUE	1
595335	Megestrol acetate	Megestrol Aceta							FALSE	1
593748	Methyl mercury	Methyl Mercury							FALSE	1
593602	Vinyl bromide	Vinyl Bromide							FALSE	1
592621	Methylazoxymethanol acetate	MeAzoMethnlAcet							FALSE	1
590965	Methylazoxymethanol	MeAzoMethnl							FALSE	1
584849	Toluene-2,4-diisocyanate	T-2,4-diisocyan	0.039		0.008		0.015	2	FALSE	1
569642	C. I. Basic Green 4	CI BasicGrn 4							FALSE	1
569619	C. I. Basic Red 9 monohydrochloride	CI BasicRed 9							FALSE	1
564250	Doxycycline	Doxycycline							FALSE	1
563473	3-Chloro-2-methylpropene	3-Cl-2MePropene							FALSE	1
556525	Glycidol	Glycidol							FALSE	1
555840	1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone	1(5NiFur)Idinon							FALSE	1

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554132	Lithium carbonate	LithiumCarbonat							FALSE	1
546883	Acetohydroxamic acid	AcetohydrxAcid							FALSE	1
542881	Bis(chloromethyl) ether	Bis(ClMe)Ether	46						FALSE	1
542756	1,3-Dichloropropene	1,3-DiClPropene							FALSE	1
541731	1,3-Dichlorobenzene	1,3-DiClBenzene							FALSE	1
541413	Ethyl chloroformate	Ethyl ClFormate							FALSE	1
540885	t-Butyl acetate	t-Butyl acetate	0	0	0	0		0	FALSE	1
540841	2,2,4-Trimethylpentane	2,2,4TriMePentn							FALSE	1
540738	1,2-Dimethylhydrazine	1,2-DiMeHydrazi							FALSE	1
540590	1,2-Dichloroethylene	1,2-DiClEthylen							FALSE	1
534521	4,6-Dinitro-o-cresol (and salts)	4,6-DiNiCresol							FALSE	1
532274	2-Chloroacetophenone	2-ClAcetPhenone							FALSE	1
531828	N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	NNiFurylThiazAc							FALSE	1
531760	Merphalan	Merphalan							FALSE	1
528290	o-Dinitrobenzene	o-DinitroBenzen							FALSE	1
513371	Dimethylvinylchloride {DMVC}	DiMeVinylCl							FALSE	1
512561	Trimethyl phosphate	TriMethylPhosph							FALSE	1
510156	Chlorobenzilate	Chlorobenzilate							FALSE	1
509148	Tetranitromethane	TetraNitroMetha							FALSE	1
505602	Mustard gas	Mustard gas							FALSE	1
494031	N-N-Bis(2-chloroethyl)-2-naphthylamine {Chlornaphazine}	NNBisChlNaph							FALSE	1
492808	Auramine	Auramine							FALSE	1
484208	5-Methoxypsoralen	5-MethoxPsoral							FALSE	1
474259	Chenodiol	Chenodiol							FALSE	1
463581	Carbonyl sulfide	CarbonylSulfide							FALSE	1
446866	Azathioprine	Azathioprine							FALSE	1
443481	Metronidazole	Metronidazole							FALSE	1
434071	Oxymetholone	Oxymetholone							FALSE	1
379793	Ergotamine tartrate	ErgotamineTartr							FALSE	1
373024	Nickel acetate	Ni Acetate	0.91		0.014	0.011	0.06	0.2	TRUE	0.3321
366701	Procarbazine hydrochloride	ProcarbazinHCl							FALSE	1
334883	Diazomethane	Diazomethane							FALSE	1
319857	beta-Hexachlorocyclohexane	betaHexClCycHx	4	4					TRUE	1
319846	alpha-Hexachlorocyclohexane	alphaHexClCycHx	4	4					TRUE	1
315377	Testosterone enanthate	TestosteronEnan							FALSE	1
315220	Monocrotaline	Monocrotaline							FALSE	1
309002	Aldrin	Aldrin							FALSE	1
305033	Chlorambucil	Chlorambucil							FALSE	1
303479	Ochratoxin A	Ochratoxin A							FALSE	1
303344	Lasiocarpine	Lasiocarpine							FALSE	1
302794	all-trans-Retinoic acid	all-transRetinA							FALSE	1
302705	Nitrogen mustard N-oxide	NitrMustardN-Ox							FALSE	1
302012	Hydrazine	Hydrazine	17		0.2				FALSE	1
301042	Lead acetate	Lead Acetate	0.042	0.0085					TRUE	0.637
299752	Treosulfan	Treosulfan							FALSE	1
271896	Benzofuran	Benzofuran							FALSE	1
226368	Dibenz[a,h]acridine	D[a,h]acridine	0.39	1.2					TRUE	1
224420	Dibenz[a,j]acridine	D[a,j]acridine	0.39	1.2					TRUE	1
218019	Chrysene	Chrysene	0.039	0.12					TRUE	1
208968	Acenaphthylene	Acenaphthylene							FALSE	1
207089	Benzo[k]fluoranthene	B[k]fluoranthen	0.39	1.2					TRUE	1
206440	Fluoranthene	Fluoranthene							FALSE	1
205992	Benzo[b]fluoranthene	B[b]fluoranthen	0.39	1.2					TRUE	1
205823	Benzo[j]fluoranthene	B[j]fluoranthen	0.39	1.2					TRUE	1
198550	Perylene	Perylene							FALSE	1
194592	7H-Dibenzo[c,g]carbazole	7H-D[c,g]carb	3.9	12					TRUE	1
193395	Indeno[1,2,3-cd]pyrene	In[1,2,3-cd]pyr	0.39	1.2					TRUE	1
192972	Benzo[e]pyrene	B[e]pyrene							FALSE	1
192654	Dibenzo[a,e]pyrene	D[a,e]pyrene	3.9	12					TRUE	1
191300	Dibenzo[a,l]pyrene	D[a,l]pyrene	39	120					TRUE	1
191242	Benzo[g,h,i]perylene	B[g,h,i]perylen							FALSE	1
189640	Dibenzo[a,h]pyrene	D[a,h]pyrene	39	120					TRUE	1
189559	Dibenzo[a,i]pyrene	D[a,i]pyrene	39	120					TRUE	1
156627	Calcium cyanamide	CalciumCyanamid							FALSE	1
156105	p-Nitrosodiphenylamine	p-NitrosDiPhAmn	0.022						FALSE	1
154938	Bischloroethyl nitrosourea	BisClEthNitUrea							FALSE	1
154427	Thioguanine	Thioguanine							FALSE	1
151564	Ethyleneimine {Aziridine}	Ethyleneimine							FALSE	1
148823	Melphalan	Melphalan							FALSE	1
147944	Cytarabine	Cytarabine							FALSE	1
143679	Vinblastine sulfate	VinblastineSulf							FALSE	1
143500	Chlordecone {Kepone}	Chlordecone							FALSE	1
141322	Butyl acrylate	Butyl Acrylate							FALSE	1
140885	Ethyl acrylate	Ethyl Acrylate							FALSE	1
140578	Aramite	Aramite							FALSE	1
139913	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone	5-MorphMeNiFur							FALSE	1
139651	4,4'-Thiodianiline	4,4'Thiodianili							FALSE	1
139139	Nitrilotriacetic acid	NitrilTriAc Aci							FALSE	1
135206	Cupferron	Cupferron	0.22						FALSE	1
134327	1-Naphthylamine	1-NaphthylAmine							FALSE	1
134292	o-Anisidine hydrochloride	o-Anisidine HCl							FALSE	1
133904	Chloramben	Chloramben							FALSE	1
133073	Folpet	Folpet							FALSE	1
133062	Captan	Captan							FALSE	1
132649	Dibenzofuran	Dibenzofuran							FALSE	1
132274	Sodium o-phenylphenate	Sodium o-PhPhen							FALSE	1
131113	Dimethyl phthalate	DimethylPhthala							FALSE	1
129157	2-Methyl-1-nitroanthraquinone (uncertain purity)	2-MeNitAnthrqn							FALSE	1
129000	Pyrene	Pyrene							FALSE	1
128449	Sodium saccharin	SodiumSaccharin							FALSE	1
127480	Trimethadione	Trimethadione							FALSE	1
127184	Perchloroethylene {Tetrachloroethene}	Perc	0.021		35			20000	FALSE	1
126998	Chloroprene	Chloroprene							FALSE	1
126738	Tributyl phosphate	TriButylPhospha							FALSE	1
126727	Tris(2,3-dibromopropyl)phosphate	Tris(DiBrPr)Pho							FALSE	1
126078	Griseofulvin	Griseofulvin							FALSE	1
125848	Aminoglutethimide	Aminoglutethimi							FALSE	1
124481	Chlorodibromomethane	ChloroDiBrMetha							FALSE	1
124389	Carbon dioxide	CO2							FALSE	1
123911	1,4-Dioxane	1,4-Dioxane	0.027		3000			3000	FALSE	1

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123728	Butyraldehyde	Butyraldehyde							FALSE	1
123386	Propionaldehyde	Propionaldehyde							FALSE	1
123319	Hydroquinone	Hydroquinone							FALSE	1
122667	1,2-Diphenylhydrazine {Hydrazobenzene}	1,2-DiPhenyHydr							FALSE	1
122601	Phenyl glycidyl ether	PhenylGlycEther							FALSE	1
121697	N,N-Dimethylaniline	N,N-DiMeAniline							FALSE	1
121448	Triethylamine	Triethylamine			200			2800	FALSE	1
121142	2,4-Dinitrotoluene	2,4-DiNitToluen	0.31						FALSE	1
120832	2,4-Dichlorophenol	2,4-DiClPhenol							FALSE	1
120821	1,2,4-Trichlorobenzene	1,2,4TriClBenz							FALSE	1
120809	Catechol	Catechol							FALSE	1
120718	p-Cresidine	p-Cresidine	0.15						FALSE	1
120581	Isosafrole	Isosafrole							FALSE	1
120127	Anthracene	Anthracene							FALSE	1
119937	3,3'-Dimethylbenzidine {o-Tolidine}	3,3'DiMeBenzidn							FALSE	1
119904	3,3'-Dimethoxybenzidine	3,3'DMethoxBnz							FALSE	1
118741	Hexachlorobenzene	HexaClBenzene	1.8						FALSE	1
117840	n-Dioctyl phthalate	n-DiOctylPhthal							FALSE	1
117817	Di(2-ethylhexyl) phthalate	Di2-EthHxPhthal	0.0084	0.0084					TRUE	1
117793	2-Aminoanthraquinone	2-Aminoanthrqn	0.033						FALSE	1
115866	Triphenyl phosphate	TriPhPhosphate							FALSE	1
115673	Paramethadione	Paramethadione							FALSE	1
115322	Dicofol	Dicofol							FALSE	1
115286	Chlorendic acid	Chlorendic Acid							FALSE	1
115071	Propylene	Propylene			3000				FALSE	1
115026	Azaserine	Azaserine							FALSE	1
114261	Propoxur	Propoxur							FALSE	1
112492	Triethylene glycol dimethyl ether	TEGDME							FALSE	1
112345	Diethylene glycol monobutyl ether	DEGBE							FALSE	1
111966	Diethylene glycol dimethyl ether	DEGDME							FALSE	1
111900	Diethylene glycol monoethyl ether	DEGEE							FALSE	1
111773	Diethylene glycol monomethyl ether	DEGME							FALSE	1
111762	Ethylene glycol monobutyl ether	EGBE						14000	FALSE	1
111466	Diethylene glycol	DEGlycol							FALSE	1
111444	Bis(2-chloroethyl) ether {DCEE}	Bis(2ClEth)Ethr	2.5						FALSE	1
111422	Diethanolamine	Diethanolamine			3				FALSE	1
111308	Glutaraldehyde	Glutaraldhyd			0.08				FALSE	1
111159	Ethylene glycol monoethyl ether acetate	EGEEA			300			140	FALSE	1
110861	Pyridine	Pyridine							FALSE	1
110827	Cyclohexane	Cyclohexane							FALSE	1
110805	Ethylene glycol monoethyl ether	EGEE			70			370	FALSE	1
110714	Ethylene glycol dimethyl ether	EGDME							FALSE	1
110543	Hexane	Hexane			7000				FALSE	1
110496	Ethylene glycol monomethyl ether acetate	EGMEA			90				FALSE	1
110009	Furan	Furan							FALSE	1
109864	Ethylene glycol monomethyl ether	EGME			60			93	FALSE	1
109068	2-Methylpyridine	2MethylPyridine							FALSE	1
108952	Phenol	Phenol			200			5800	FALSE	1
108930	Cyclohexanol	Cyclohexanol							FALSE	1
108907	Chlorobenzene	Chlorobenzn			1000				FALSE	1
108883	Toluene	Toluene			300			37000	FALSE	1
108656	Propylene glycol monomethyl ether acetate	PGMEA							FALSE	1
108601	Bis(2-chloro-1-methylethyl) ether	Bis(2ClMeE)Ethr							FALSE	1
108394	m-Cresol	m-Cresol			600				FALSE	1
108383	m-Xylene	m-Xylene			700			22000	FALSE	1
108316	Maleic anhydride	Maleic Anhydrid			0.7				FALSE	1
108101	Methyl isobutyl ketone {Hexone}	MIBK							FALSE	1
108054	Vinyl acetate	Vinyl Acetate			200				FALSE	1
107982	Propylene glycol monomethyl ether	PGME			7000				FALSE	1
107302	Chloromethyl methyl ether (technical grade)	ClMeMethEther							FALSE	1
107211	Ethylene glycol	Ethylene Glycol			400				FALSE	1
107186	Allyl alcohol	Allyl Alcohol							FALSE	1
107131	Acrylonitrile	Acrylonitrile	1		5				FALSE	1
107062	Ethylene dichloride {EDC}	EDC	0.072		400				FALSE	1
107051	Allyl chloride	AllylChlor	0.021						FALSE	1
107028	Acrolein	Acrolein			0.35		0.7	2.5	FALSE	1
106990	1,3-Butadiene	1,3-Butadiene	0.6		2		9	660	FALSE	1
106934	Ethylene dibromide {EDB}	EDB	0.25		0.8				FALSE	1
106898	Epichlorohydrin	Epichlorohydrin	0.08		3			1300	FALSE	1
106887	1,2-Epoxybutane	1,2-EpoxyButane			20				FALSE	1
106876	4-Vinyl-1-cyclohexene diepoxide	4VinylCyclHxEpx							FALSE	1
106514	Quinone	Quinone							FALSE	1
106503	p-Phenylenediamine	p-Phenylenediam							FALSE	1
106490	p-Toluidine	p-Toluidine							FALSE	1
106478	p-Chloroaniline	p-Chloroaniline							FALSE	1
106467	p-Dichlorobenzene	p-DiClBenzene	0.04		800				FALSE	1
106445	p-Cresol	p-Cresol			600				FALSE	1
106423	p-Xylene	p-Xylene			700			22000	FALSE	1
105679	2,4-Dimethylphenol {2,4-Xylenol}	2,4-DiMePhenol							FALSE	1
105602	Caprolactam	Caprolactam			2.2		7	50	FALSE	1
104949	p-Anisidine	p-Anisidine							FALSE	1
103333	Azobenzene	Azobenzene							FALSE	1
103231	Bis(2-ethylhexyl) adipate	Bis(2EHx)Adipat							FALSE	1
101906	Diglycidyl resorcinol ether {DGRE}	DGRE							FALSE	1
101804	4,4'-Diaminodiphenyl ether	4,4DiAminPhEthr							FALSE	1
101779	4,4'-Methylenedianiline (and its dichloride)	4,4'-MeDianilin	1.6	1.6	20				TRUE	1
101688	Methylene diphenyl diisocyanate {MDI}	MeDiphenDiisocy			0.08		0.16	12	FALSE	1
101611	4,4'-Methylene bis (N,N-dimethyl) benzenamine	4,4'MeBisBenzAm							FALSE	1
101144	4-4-Methylene bis(2-chloroaniline) {MOCA}	MOCA: 4,4'MeBis	1.5						FALSE	1
101020	Triphenyl phosphite	TriPhPhosphite							FALSE	1
100754	N-Nitrosopiperidine	N-NitrosPiperid	9.4						FALSE	1
100447	Benzyl chloride	Benzyl Chloride	0.17					240	FALSE	1
100425	Styrene	Styrene			900			21000	FALSE	1
100414	Ethyl benzene	Ethyl Benzene	0.0087		2000				FALSE	1
100403	4-Vinylcyclohexene	4VinylCyclohexe							FALSE	1
100254	p-Dinitrobenzene	p-DinitroBenzen							FALSE	1
100210	Terephthalic acid	Terephthalic Ac							FALSE	1
100027	4-Nitrophenol	4-Nitrophenol							FALSE	1
99661	Valproate	Valproate							FALSE	1
99650	m-Dinitrobenzene	m-DinitroBenzen							FALSE	1

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Pollutant ID	Pollutant Name	Abbrevated Name	INHALATIONCANCERSLOPEFACTOR	ORALCANCERSLOPEFACTOR	INHALATIONCHRONICREL	ORALCHRONICREL	INHALATIONCHRONICREL_BHR	ACUTEREL	ISMULTIPATHWAY	MolWtCorrection
99592	5-Nitro-o-anisidine	5-Nitr-o-Anisid							FALSE	1
98953	Nitrobenzene	Nitrobenzene							FALSE	1
98884	Benzoyl chloride	Benzoyl Chlorid							FALSE	1
98873	Benzal chloride	Benzal chloride							FALSE	1
98862	Acetophenone	Acetophenone							FALSE	1
98828	Cumene	Cumene							FALSE	1
98077	Benzoic trichloride	Benzoic TriCl							FALSE	1
97563	o-Aminoazotoluene	o-Aminoazotolue							FALSE	1
96457	Ethylene thiourea	EthylenThiourea	0.045						FALSE	1
96333	Methyl acrylate	Methyl Acrylate							FALSE	1
96184	1,2,3-Trichloropropane	1,2,3TriClPropn							FALSE	1
96139	2,3-Dibromo-1-propanol	2,3DiBr1Propnol							FALSE	1
96128	1,2-Dibromo-3-chloropropane	DBCP	7						FALSE	1
96093	Styrene oxide	Styrene Oxide							FALSE	1
95954	2,4,5-Trichlorophenol	2,4,5TriClPhenl							FALSE	1
95830	4-Chloro-o-phenylenediamine	4-ClPhenDiamine	0.016						FALSE	1
95807	2,4-Diaminotoluene	2,4-DiAminTolue	4						FALSE	1
95692	p-Chloro-o-toluidine	pCl-Toluidine	0.27						FALSE	1
95636	1,2,4-Trimethylbenzene	1,2,4TriMeBenze							FALSE	1
95578	2-Chlorophenol	2-Chlorophenol							FALSE	1
95534	o-Toluidine	o-Toluidine							FALSE	1
95501	1,2-Dichlorobenzene	1,2-DiClBenzene							FALSE	1
95487	o-Cresol	o-Cresol			600				FALSE	1
95476	o-Xylene	o-Xylene			700			22000	FALSE	1
95067	Sulfallate	Sulfallate							FALSE	1
94780	Phenazopyridine hydrochloride	PhenazoPyri HCl							FALSE	1
94757	Dichlorophenoxyacetic acid, salts and esters (2,4-D)	2,4-D							FALSE	1
94597	Safrole	Safrole							FALSE	1
94586	Dihydrosafrole	Dihydrosafrole							FALSE	1
94360	Benzoyl peroxide	Benzoyl Peroxid							FALSE	1
92933	4-Nitrobiphenyl	4-Nitrobiphenyl							FALSE	1
92875	Benzidine (and its salts)	Benzidine	500						FALSE	1
92671	4-Aminobiphenyl	4-Aminobiphenyl							FALSE	1
92524	Biphenyl	Biphenyl							FALSE	1
91941	3,3'-Dichlorobenzidine	3,3'DiClBenzidn	1.2						FALSE	1
91598	2-Naphthylamine	2-NaphthylAmine							FALSE	1
91576	2-Methyl naphthalene	2MeNaphthalene							FALSE	1
91225	Quinoline	Quinoline							FALSE	1
91203	Naphthalene	Naphthalene	0.12		9				FALSE	1
91087	Toluene-2,6-diisocyanate	T-2,6-diisocyan	0.039		0.008		0.015	2	FALSE	1
90948	Michler's ketone	Michler'sKetone	0.86						FALSE	1
90437	2-Phenylphenol	2-Phenylphenol							FALSE	1
90040	o-Anisidine	o-Anisidine							FALSE	1
88891	Picric acid	Picric Acid							FALSE	1
88857	Dinoseb	Dinoseb							FALSE	1
88755	2-Nitrophenol	2-NitroPhenol							FALSE	1
88101	Particulate Matter 2.5 Microns or Less	PM25							FALSE	1
88062	2,4,6-Trichlorophenol	2,4,6TriClPhenl	0.07						FALSE	1
87865	Pentachlorophenol	PCP	0.018						FALSE	1
87683	Hexachlorobutadiene	HexaClButadiene							FALSE	1
87627	2,6-Xylidene	2,6-Xylidene							FALSE	1
87296	Cinnamyl anthranilate	CinnamylAnthran							FALSE	1
86737	Fluorene	Fluorene							FALSE	1
86306	N-Nitrosodiphenylamine	N-NitrosDiPhAmi	0.009						FALSE	1
85687	Butyl benzyl phthalate	ButylBenzPhthal							FALSE	1
85449	Phthalic anhydride	Phthalic Anhydr			20				FALSE	1
85101	Particulate Matter 10 Microns or Less	PM10							FALSE	1
85018	Phenanthrene	Phenanthrene							FALSE	1
84742	Dibutyl phthalate	DiButyl Phthal							FALSE	1
84662	Diethyl phthalate	DiethylPhthalat							FALSE	1
84173	Dienestrol	Dienestrol							FALSE	1
83329	Acenaphthene	Acenaphthene							FALSE	1
82688	Pentachloronitrobenzene (Quintobenzene)	PentaClNitrBenz							FALSE	1
82280	1-Amino-2-methylanthraquinone	1-AminMeAnthrqn							FALSE	1
81889	D and C Red No. 19	D&C Red 19							FALSE	1
81812	Warfarin	Warfarin							FALSE	1
81072	Saccharin	Saccharin							FALSE	1
80626	Methyl methacrylate	Methyl Methacry							FALSE	1
80159	Cumene hydroperoxide	Cumene HydPerOx							FALSE	1
80057	4,4'-Isopropylidenediphenol	4,4'IsoprDiPhen							FALSE	1
79572	Oxytetracycline	Oxytetracycline							FALSE	1
79469	2-Nitropropane	2-Nitropropane							FALSE	1
79447	Dimethyl carbamoyl chloride	DiMeCarbamyCl							FALSE	1
79345	1,1,2,2-Tetrachloroethane	TetraClEthane	0.2						FALSE	1
79210	Peracetic acid	Peracetic Acid							FALSE	1
79118	Chloroacetic acid	Chloroacet Acid							FALSE	1
79107	Acrylic acid	Acrylic acid						6000	FALSE	1
79061	Acrylamide	Acrylamide	4.5						FALSE	1
79016	Trichloroethylene	TCE	0.007		600				FALSE	1
79005	1,1,2-Trichloroethane	1,1,2TriClEthan	0.057						FALSE	1
78933	Methyl ethyl ketone (2-Butanone)	MEK						13000	FALSE	1
78922	sec-Butyl alcohol	sec-Butyl Alcoh							FALSE	1
78886	2,3-Dichloropropene	2,3-DiClPropene							FALSE	1
78875	1,2-Dichloropropane	1,2-DiClPropane							FALSE	1
78842	Isobutyraldehyde	Isobutyraldehyd							FALSE	1
78795	Isoprene, except from vegetative emission sources	Isoprene							FALSE	1
78591	Isophorone	Isophorone			2000				FALSE	1
78400	Triethyl phosphine	TriEthylPhosphn							FALSE	1
78308	Triorthocresyl phosphate	TriOrthCresPhos							FALSE	1
77781	Dimethyl sulfate	DiMeSulfate							FALSE	1
77474	Hexachlorocyclopentadiene	HexClCycPentadi							FALSE	1
76448	Heptachlor	Heptachlor							FALSE	1
76437	Fluoxymesterone	Fluoxymesterone							FALSE	1
76131	Chlorinated Fluorocarbon (CFC-113) (1,1,2-Trichloro-1,2,2-trifluoroethane)	CFC-113							FALSE	1
76062	Chloropicrin	Chloropicrin			0.4			29	FALSE	1
75865	2-Methyllactonitrile (Acetone cyanohydrin)	2MeLacotnitrile							FALSE	1
75730	Carbon tetrafluoride	Carbon Tetraflu							FALSE	1
75718	Dichlorodifluoromethane (Freon 12)	DiClDiFlmethane							FALSE	1
75694	Trichlorofluoromethane (Freon 11)	TriClFluorMetha							FALSE	1
75650	tert-Butyl alcohol	t-Butyl Alcohol							FALSE	1

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75569	Propylene oxide	Propylene Oxide	0.013		30			3100	FALSE	1
75558	2-Methylaziridine {1,2-Propyleneimine}	2-MeAziridine							FALSE	1
75467	Trifluoromethane {Freon 23}	TriFluoroMethan							FALSE	1
75456	Chlorodifluoromethane {Freon 22}	ClDiFluorMethan							FALSE	1
75445	Phosgene	Phosgene						4	FALSE	1
75434	Dichlorofluoromethane {Freon 21}	DiClFluorMethan							FALSE	1
75376	1,1-Difluoroethane {Freon 152a}	DiFluoroEthane							FALSE	1
75354	Vinylidene chloride	Vinylid Chlorid			70				FALSE	1
75343	1,1-Dichloroethane	1,1-DiClEthane	0.0057						FALSE	1
75274	Bromodichloromethane	BromoDiClMethan							FALSE	1
75252	Bromoform	Bromoform							FALSE	1
75218	Ethylene oxide	EtO	0.31		30				FALSE	1
75150	Carbon disulfide	CS2			800			6200	FALSE	1
75092	Methylene chloride {Dichloromethane}	Methylene Chlor	0.0035		400			14000	FALSE	1
75070	Acetaldehyde	Acetaldehyde	0.01		140		300	470	FALSE	1
75058	Acetonitrile	Acetonitrile							FALSE	1
75025	Vinyl fluoride	VinylFluoride							FALSE	1
75014	Vinyl chloride	Vinyl Chloride	0.27					180000	FALSE	1
75003	Ethyl chloride {Chlorethane}	Ethyl Chloride			30000				FALSE	1
74953	Methylene bromide	MethyleneBromid							FALSE	1
74908	Hydrocyanic acid	HCN			9			340	FALSE	1
74884	Methyl iodide {Iodomethane}	Methyl Iodide							FALSE	1
74873	Methyl chloride {Chloromethane}	Methyl Chloride							FALSE	1
74851	Ethylene	Ethylene							FALSE	1
74839	Methyl bromide {Bromomethane}	Methyl Bromide			5			3900	FALSE	1
74828	Methane	CH4							FALSE	1
72571	Trypan blue	Trypan blue							FALSE	1
72559	Dichlorodiphenyldichloroethylene {DDE}	DiClDiPhEthylen							FALSE	1
72548	Dichlorodiphenyldichloroethane {DDD}	DDD							FALSE	1
72435	Methoxychlor	Methoxychlor							FALSE	1
72333	Mestranol	Mestranol							FALSE	1
71589	Medroxyprogesterone acetate	Medroxypro acet							FALSE	1
71556	Methyl chloroform {1,1,1-Trichloroethane}	1,1,1-TCA			1000			68000	FALSE	1
71432	Benzene	Benzene	0.1		3		3	27	FALSE	1
71363	n-Butyl alcohol	n-Butyl Alcohol							FALSE	1
70257	N-Methyl-N'-nitro-N-nitrosoguanidine	N-Me-NitrGuanid							FALSE	1
68768	Tris(aziridinyl)-p-benzoquinone	TrisAzirQuinone							FALSE	1
68224	Norethisterone	Norethisterone							FALSE	1
68122	Dimethyl formamide	DMF			80				FALSE	1
67721	Hexachloroethane	HexaClEthane							FALSE	1
67663	Chloroform	Chloroform	0.019		300			150	FALSE	1
67641	[D] Acetone [Deleted/Obsolete Emittent ID]	[D] Acetone							FALSE	1
67630	Isopropyl alcohol	Isopropyl Alcoh			7000			3200	FALSE	1
67561	Methanol	Methanol			4000			28000	FALSE	1
67458	Furazolidone	Furazolidone							FALSE	1
67209	Nitrofurantoin	Nitrofurantoin							FALSE	1
66819	Cycloheximide	Cycloheximide							FALSE	1
66751	Uracil mustard	Uracil Mustard							FALSE	1
66273	Methyl methanesulfonate	MeMethSulfonate							FALSE	1
64755	Tetracycline hydrochloride	TetracyclineHCl							FALSE	1
64675	Diethyl sulfate	DiethylSulfate							FALSE	1
63989	Phenacemide	Phenacemide							FALSE	1
63923	Phenoxybenzimide hydrochloride	PhenoxBenzamHCl							FALSE	1
63252	Carbaryl	Carbaryl							FALSE	1
62759	N-Nitrosodimethylamine	N-NitrosDMA	16						FALSE	1
62737	Dichlorovos {DDVP}	Dichlorovos							FALSE	1
62566	Thiourea	Thiourea							FALSE	1
62555	Thioacetamide	Thioacetamide	6.1						FALSE	1
62533	Aniline	Aniline	0.0057						FALSE	1
62500	Ethyl methanesulfonate	EthMeSulfonate							FALSE	1
62442	Phenacetin	Phenacetin							FALSE	1
61825	Amitrole	Amitrole							FALSE	1
61574	Niridazole	Niridazole							FALSE	1
60571	Dieldrin	Dieldrin							FALSE	1
60560	Methimazole	Methimazole							FALSE	1
60355	Acetamide	Acetamide	0.07						FALSE	1
60344	Methyl hydrazine	Methyl Hydrazin							FALSE	1
60117	4-Dimethylaminoazobenzene	4-DiMeAmAzoBnz	4.6						FALSE	1
60093	p-Aminoazobenzene	p-Aminoazobenz							FALSE	1
59961	Phenoxybenzamine	PhenoxyBenzamin							FALSE	1
59892	N-Nitrosomorpholine	N-NitrosMorphol	6.7						FALSE	1
59870	Nitrofurazone	Nitrofurazone							FALSE	1
59052	Methotrexate	Methotrexate							FALSE	1
58902	2,3,4,6-Tetrachlorophenol	2,3,4,6TetrClPh							FALSE	1
58899	Lindane {gamma-Hexachlorocyclohexane}	Lindane	1.1	1.1					TRUE	1
58220	Testosterone and its esters	Testosteron&Est							FALSE	1
58184	Methyltestosterone	Methyltestoster							FALSE	1
57976	7,12-Dimethylbenz[a]anthracene	7,12-DB[a]anthr	250	250					TRUE	1
57830	Progesterone	Progesterone							FALSE	1
57749	Chlordane	Chlordane							FALSE	1
57636	Ethinyl estradiol	EthinylEstrdiol							FALSE	1
57578	beta-Propiolactone	beta-Propiolact							FALSE	1
57410	Phenytoin	Phenytoin							FALSE	1
57330	Pentobarbital sodium	PentobarbSodium							FALSE	1
57147	1,1-Dimethylhydrazine	1,1-DiMeHydrzn							FALSE	1
57125	Cyanide compounds (inorganic)	Cyanide cmpds			9			340	FALSE	1
56757	Chloramphenicol	Chloramphcl							FALSE	1
56553	Benz[a]anthracene	B[a]anthracene	0.39	1.2					TRUE	1
56531	Diethylstilbestrol	DES							FALSE	1
56495	3-Methylcholanthrene	3-MeCholanthren	22	22					TRUE	1
56382	Parathion	Parathion							FALSE	1
56235	Carbon tetrachloride	CCl4	0.15		40			1900	FALSE	1
56042	Methylthiouracil	MeThioUracil							FALSE	1
55981	1,4-Butanediol dimethanesulfonate	ButanDiol MeSul							FALSE	1
55867	Nitrogen mustard hydrochloride	NitrMustardHCl							FALSE	1
55630	Nitroglycerin	Nitroglycerin							FALSE	1
55210	Benzamide	Benzamide							FALSE	1
55185	N-Nitrosodiethylamine	N-NitrosDEA	36						FALSE	1
54911	Pipobroman	Pipobroman							FALSE	1
54626	Aminopterin	Aminopterin							FALSE	1

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54115	Nicotine	Nicotine							FALSE	1
53963	2-Acetylaminofluorene	2-AcetylAmFluor							FALSE	1
53703	Dibenz[a,h]anthracene	D[a,h]anthracen	4.1	4.1					TRUE	1
53167	Estrone	Estrone							FALSE	1
52686	Trichlorfon	Trichlorfon							FALSE	1
52675	Penicillamine	Penicillamine							FALSE	1
52244	Tris(1-aziridinyl) phosphine sulfide	TrisAzirPhosphS							FALSE	1
51796	Urethane	Urethane	1						FALSE	1
51752	Nitrogen mustard	NitrogenMustard							FALSE	1
51525	Propylthiouracil	Propylthiouraci							FALSE	1
51285	2,4-Dinitrophenol	2,4-DiNPhenol							FALSE	1
51218	Fluorouracil	Fluorouracil							FALSE	1
50782	Aspirin	Aspirin							FALSE	1
50760	Actinomycin D	Actinomycin D							FALSE	1
50555	Reserpine	Reserpine							FALSE	1
50419	Clomiphene citrate	ClomipheneCitra							FALSE	1
50351	Thalidomide	Thalidomide							FALSE	1
50328	Benzo[a]pyrene	B[a]P	3.9	12					TRUE	1
50293	DDT (1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane)	DDT							FALSE	1
50282	Estradiol 17 beta	Estradiol 17bet							FALSE	1
50180	Cyclophosphamide	Cyclophosphamid							FALSE	1
50077	Mitomycin C	Mitomycin C							FALSE	1
50066	Phenobarbital	Phenobarbital							FALSE	1
50000	Formaldehyde	Formaldehyde	0.021		9		9	55	FALSE	1
43104	Volatile Organic Compounds (VOC)	VOC							FALSE	1
43101	Total Organic Gases	TOG							FALSE	1
42603	Oxides of Nitrogen	NOX							FALSE	1
42401	Oxides of sulfur	SOX							FALSE	1
42101	Carbon Monoxide [Criteria Pollutant]	CO							FALSE	1
16113	Reactive Organic Gas	ROG							FALSE	1
11101	Particulate Matter	PM							FALSE	1
9961	SULFURIC ACID+OLEUM	SULFURIC+OLEUM							FALSE	1
9960	SULFATES	SULFATES						120	FALSE	1
9911	Gasoline engine exhaust, total organic gas	GasolExhTOG							FALSE	1
9910	Gasoline engine exhaust, particulate matter	GasolExhPM							FALSE	1
9902	Diesel engine exhaust, total organic gas	DieselExhTOG							FALSE	1
9901	Diesel engine exhaust, particulate matter (Diesel PM)	DieselExhPM	1.1		5				FALSE	1
2222	Polybrominated diphenyl ethers {PBDEs}	PBDEs	0	0	0	0		0	FALSE	1
1206	Wood preservatives (containing arsenic and chromate)	Wood Preserv							FALSE	1
1205	alpha-chlorinated Toluenes	a-Cl-Toluenes							FALSE	1
1200	Tobacco products, smokeless	Tobac/smokeless							FALSE	1
1190	Talc containing asbestiform fibers	Talc w/asbest							FALSE	1
1185	Soots	Soots							FALSE	1
1181	Slagwool (man-made fibers)	Slagwool							FALSE	1
1180	Shale oils	Shale oils							FALSE	1
1175	Silica, crystalline (respirable)	Silica, Crystln			3				FALSE	1
1168	Rockwool (man-made fibers)	Rockwool							FALSE	1
1167	Retinol/retinyl esters	Retinol/yl estr							FALSE	1
1166	Radon and its decay products	Radon							FALSE	1
1165	Radionuclides	Radionuclides							FALSE	1
1160	Progestins	Progestins							FALSE	1
1155	Polybrominated biphenyls	PBBs							FALSE	1
1151	PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA]	PAHs-w/o	3.9	12					TRUE	1
1150	PAHs, total, with individ. components also reported	PAHs-w/							FALSE	1
1148	Nitrilotriacetic acid (salts)	NitrTriA(salts)							FALSE	1
1146	Nickel refinery dust from the pyrometallurgical process	Ni RefineryDust	0.91		0.014	0.011	0.06	0.2	TRUE	1
1140	Mineral oils (untreated and mildly treated oils)	Mineral oils							FALSE	1
1136	Mineral fibers (fine: man-made)	MinrlFibr(fine)							FALSE	1
1135	Mineral fibers (other than man-made)	MinrlFibr(othr)							FALSE	1
1131	Lubricant base oils and derived products	LubricntBaseOil							FALSE	1
1129	Lead compounds (other than inorganic)	Lead cmpd(org)							FALSE	1
1128	Lead compounds (inorganic)	Lead cmp(inorg)	0.042	0.0085					TRUE	1
1125	Isocyanates	Isocyanates							FALSE	1
1115	Glycol ethers (and their acetates)	Glycol Ethers							FALSE	1
1111	Glasswool (man-made fibers)	Glasswool							FALSE	1
1110	Gasoline vapors	Gasol vapors							FALSE	1
1104	Fluorocarbons (chlorinated)	Fluorocarb(Cl)							FALSE	1
1103	Fluorocarbons (brominated)	Fluorocarb(Br)							FALSE	1
1101	Fluorides and compounds	Fluorides&cmpds			13	0.04		240	TRUE	1
1100	Estrogens, steroidal	Estrogens,ster							FALSE	1
1095	Estrogens, non-steroidal	Estrogns,non-st							FALSE	1
1091	Epoxy resins	Epoxy resins							FALSE	1
1090	Environmental Tobacco Smoke	ETS							FALSE	1
1086	Dioxins, total, w/o individ. isomers reported {PCDDs} [Treat as 2378TCDD for HRA	Dioxins-w/o	130000	130000	4.00E-05	1.00E-08			TRUE	1
1085	Dioxins, total, with individ. isomers also reported {PCDDs}	Dioxins-w/							FALSE	1
1080	Dibenzofurans (chlorinated) {PCDFs} [Treated as 2378TCDD for HRA]	DiBenFurans(Cl)	130000	130000	4.00E-05	1.00E-08			TRUE	1
1078	Diaminotoluenes (mixed isomers)	Diaminotoluenes							FALSE	1
1075	Dialkylnitrosamines	DialkNitrosamin							FALSE	1
1073	[D] Cyanide compounds [Deleted/Obsolete Emittent ID]	[D] Cyanide cmp			9			340	FALSE	1
1070	Creosotes	Creosotes							FALSE	1
1068	Conjugated estrogens	ConjugEstrogens							FALSE	1
1066	Coke oven emissions	CokeOvnEmis							FALSE	1
1065	Chlorophenoxy herbicides	Cl-phenoxy herb							FALSE	1
1060	Chlorophenols	Chlorophenols							FALSE	1
1059	p-Chloro-o-toluidine (strong acid salts)	pCl-Tolui/salts							FALSE	1
1058	Chlorobenzenes	Chlorobenzns							FALSE	1
1056	Ceramic fibers (man-made)	CeramicFibers							FALSE	1
1055	Carrageenan (degraded)	Carrageenan							FALSE	1
1050	Carbon black extracts	CarbonBlackExtr							FALSE	1
1035	Bleomycins	Bleomycins							FALSE	1
1030	Bitumens, extracts of steam-refined and air-refined bitumens	Bitumens							FALSE	1
1025	Betel quid with tobacco	Betel quid							FALSE	1
1020	Benzidine-based dyes	Benzi dyes	500						FALSE	1
1017	Arsenic compounds (other than inorganic)	As cmpd(org)					0.015		FALSE	1
1016	Arsenic compounds (inorganic)	As cmpd(inorg)	12	1.5	0.015	3.50E-06		0.2	TRUE	1
1010	Androgenic (anabolic) steroids	Androgenic ster							FALSE	1
1005	Analgesic mixtures containing phenacetin	Analgesics/phen							FALSE	1
1000	Aflatoxins	Aflatoxins							FALSE	1

F.3 Soil Vapor Extraction Emissions

Santa Susana Field Laboratory

Emissions Summary

No.	Matrix	Depth Interval	Ty	EcoRAClass	Preferred Analyte Name	Units	Detects	Samples	or SQL	CTE EPC
1	Soil vapor	0 - 6 ft bgs	O	VOC	1,1,1-Trichloroethane	mg/m3	1	31	0.120	0.120
2	Soil vapor	0 - 6 ft bgs	O	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	mg/m3	2	31	0.330	0.314
3	Soil vapor	0 - 6 ft bgs	O	VOC	Benzene	mg/m3	1	31	0.038	0.038
4	Soil vapor	0 - 6 ft bgs	O	VOC	Ethylbenzene	mg/m3	3	31	0.530	0.133
5	Soil vapor	0 - 6 ft bgs	O	VOC	Tetrachloroethene	mg/m3	1	30	0.120	0.120
6	Soil vapor	0 - 6 ft bgs	O	VOC	Toluene	mg/m3	4	30	0.480	0.124
7	Soil vapor	0 - 6 ft bgs	O	VOC	Trichloroethene	mg/m3	1	31	0.100	0.100
8	Soil vapor	0 - 6 ft bgs	O	VOC	m,p-Xylenes	mg/m3	3	31	1.400	0.418
9	Soil vapor	0 - 6 ft bgs	O	VOC	o-Xylene	mg/m3	1	31	0.250	0.231
10	Soil vapor	0 - 6 ft bgs	O	VOC	1,1,2-Trichloroethane	mg/m3	0	31	1.000	0.224
11	Modeled Vapor	0 - 6 ft bgs	O	VOC	1,2,4-Trichlorobenzene	mg/m3	3	76	0.254	1.689
12	Modeled Vapor	0 - 6 ft bgs	O	VOC	1,2,4-Trimethylbenzene	mg/m3	1	69	0.002	0.000
13	Modeled Vapor	0 - 6 ft bgs	O	VOC	1,2-Dichlorobenzene	mg/m3	1	81	0.000	0.002
14	Modeled Vapor	0 - 6 ft bgs	O	VOC	1,2-Dichloropropane	mg/m3	1	69	0.390	0.858
15	Modeled Vapor	0 - 6 ft bgs	O	VOC	1,3-Dichlorobenzene	mg/m3	1	81	0.000	0.010
16	Modeled Vapor	0 - 6 ft bgs	O	VOC	1,4-Dichlorobenzene	mg/m3	1	81	0.000	0.002
17	Modeled Vapor	0 - 6 ft bgs	O	VOC	2-Butanone (MEK)	mg/m3	5	69	0.009	0.002
18	Modeled Vapor	0 - 6 ft bgs	O	VOC	4-Methyl-2-pentanone (MIBK)	mg/m3	1	64	0.000	0.000
19	Modeled Vapor	0 - 6 ft bgs	O	VOC	Acetone	mg/m3	9	70	3.800	0.100
20	Modeled Vapor	0 - 6 ft bgs	O	VOC	Chloromethane	mg/m3	1	69	0.036	0.065
21	Modeled Vapor	0 - 6 ft bgs	O	VOC	Isopropylbenzene	mg/m3	1	64	0.003	0.003

Preferred Analyte Name	RME EPC	CTE EPC Basis	RME EPC Basis	Comments	CAS No.	In HARP?
1,1,1-Trichloroethane	0.120	RME CTE**	Maximum Result	Detected	71556	Yes
1,1,2-Trichloro-1,2,2-trifluoroethane	0.314	RME CTE**	95% KM (t) UCL	Detected	76131	Yes
Benzene	0.038	RME CTE**	Maximum Result	Detected	71432	Yes
Ethylbenzene	0.133	RME CTE**	95% KM (BCA) UCL	Detected	100414	Yes
Tetrachloroethene	0.120	RME CTE**	Maximum Result	Detected	127184	Yes
Toluene	0.124	RME CTE**	95% KM (t) UCL	Detected	108883	Yes
Trichloroethene	0.100	RME CTE**	Maximum Result	Detected	79016	Yes
m,p-Xylenes	1.400	Arithmetic Mean	95% KM (BCA) UCL	Detected	95476	Yes
o-Xylene	0.250	Arithmetic Mean	Maximum Result	Detected	95476	Yes
1,1,2-Trichloroethane	1.000	Mean SQL	Maximum SQL	Not Detected	79005	Yes
1,2,4-Trichlorobenzene	0.030	Modeled	Modeled	Based on soil	120821	Yes
1,2,4-Trimethylbenzene	0.000	Modeled	Modeled	Based on soil	95636	Yes
1,2-Dichlorobenzene	0.000	Modeled	Modeled	Based on soil	95501	Yes
1,2-Dichloropropane	0.390	Modeled	Modeled	Based on soil	78875	Yes
1,3-Dichlorobenzene	0.000	Modeled	Modeled	Based on soil	541731	Yes
1,4-Dichlorobenzene	0.000	Modeled	Modeled	Based on soil	106467	Yes
2-Butanone (MEK)	0.001	Modeled	Modeled	Based on soil	78933	Yes
4-Methyl-2-pentanone (MIBK)	0.000	Modeled	Modeled	Based on soil	108101	Yes
Acetone	0.400	Modeled	Modeled	Based on soil	67641	Yes
Chloromethane	0.036	Modeled	Modeled	Based on soil	74873	Yes
Isopropylbenzene	0.003	Modeled	Modeled	Based on soil	98828	Yes

Preferred Analyte Name	Extraction Efficiency (%)	Flow Rate (m3/s)	Capture Efficiency (%)	Flow Rate (mg/s)
1,1,1-Trichloroethane	10%	35	0.99	0.0042
1,1,2-Trichloro-1,2,2-trifluoroethane	10%	35	0.99	0.0110
Benzene	10%	35	0.99	0.0013
Ethylbenzene	10%	35	0.99	0.0047
Tetrachloroethene	10%	35	0.99	0.0042
Toluene	10%	35	0.99	0.0043
Trichloroethene	10%	35	0.99	0.0035
m,p-Xylenes	10%	35	0.99	0.0490
o-Xylene	10%	35	0.99	0.0088
1,1,2-Trichloroethane	10%	35	0.99	0.0350
1,2,4-Trichlorobenzene	10%	35	0.99	0.0010
1,2,4-Trimethylbenzene	10%	35	0.99	0.0000
1,2-Dichlorobenzene	10%	35	0.99	0.0000
1,2-Dichloropropane	10%	35	0.99	0.0136
1,3-Dichlorobenzene	10%	35	0.99	0.0000
1,4-Dichlorobenzene	10%	35	0.99	0.0000
2-Butanone (MEK)	10%	35	0.99	0.0000
4-Methyl-2-pentanone (MIBK)	10%	35	0.99	0.0000
Acetone	10%	35	0.99	0.0140
Chloromethane	10%	35	0.99	0.0012
Isopropylbenzene	10%	35	0.99	0.0001

Preferred Analyte Name	Flow Rate (mg/year)	Flow Rate (lbs/year)	Flow Rate (lbs/hr)
1,1,1-Trichloroethane	132,451	0.3	0.033337743
1,1,2-Trichloro-1,2,2-trifluoroethane	346,581	0.8	0.087233761
Benzene	41,943	0.1	0.010556952
Ethylbenzene	146,800	0.3	0.036949332
Tetrachloroethene	132,451	0.3	0.033337743
Toluene	136,866	0.3	0.034449001
Trichloroethene	110,376	0.2	0.027781453
m,p-Xylenes	1,545,264	3.4	0.388940336
o-Xylene	275,940	0.6	0.069453631
1,1,2-Trichloroethane	1,103,760	2.4	0.277814526
1,2,4-Trichlorobenzene	32,850	0.1	0.008268381
1,2,4-Trimethylbenzene	404	0.0	0.000101584
1,2-Dichlorobenzene	372	0.0	9.37374E-05
1,2-Dichloropropane	429,925	0.9	0.108211329
1,3-Dichlorobenzene	155	0.0	3.8894E-05
1,4-Dichlorobenzene	243	0.0	6.11192E-05
2-Butanone (MEK)	1,280	0.0	0.000322265
4-Methyl-2-pentanone (MIBK)	10	0.0	2.55589E-06
Acetone	441,504	1.0	0.11112581
Chloromethane	39,294	0.1	0.009890197
Isopropylbenzene	2,781	0.0	0.000700093

F.4 AERMOD Inputs

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.3.0
** Lakes Environmental Software Inc.
** Date: 6/29/2017
** File: C:\Users\asako\Documents\Lakes\AERMOD\Projects\SSFL 2017 Sen2\SSFL
2017 Sen2.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\AERMOD Projects\SSLF\SSLF.isc
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 9862049 Los_Angeles_County_(SCAQMD)
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "SSFL 2017 Sen2.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Plummer Street
** PREFIX
** Length of Side = 19.52
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 4
** 350697.519, 3790263.773, 285.07, 3.66, 17.89
** 351005.710, 3790244.206, 292.51, 3.66, 17.89
** 351299.225, 3790244.206, 284.01, 3.66, 17.89
** 352062.365, 3790239.314, 284.83, 3.84, 17.89
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   LOCATION L0185154     VOLUME   350707.260 3790263.155 284.41
   LOCATION L0185155     VOLUME   350745.638 3790260.718 283.84
   LOCATION L0185156     VOLUME   350784.017 3790258.282 283.51
   LOCATION L0185157     VOLUME   350822.396 3790255.845 283.99
   LOCATION L0185158     VOLUME   350860.775 3790253.408 285.84
   LOCATION L0185159     VOLUME   350899.153 3790250.971 286.84
   LOCATION L0185160     VOLUME   350937.532 3790248.535 288.42
   LOCATION L0185161     VOLUME   350975.911 3790246.098 290.09
   LOCATION L0185162     VOLUME   351014.307 3790244.206 292.73
   LOCATION L0185163     VOLUME   351052.763 3790244.206 293.97
   LOCATION L0185164     VOLUME   351091.219 3790244.206 292.46
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   LOCATION L0185165     VOLUME   351129.675 3790244.206 289.89
   LOCATION L0185166     VOLUME   351168.131 3790244.206 288.81
   LOCATION L0185167     VOLUME   351206.587 3790244.206 287.58
   LOCATION L0185168     VOLUME   351245.043 3790244.206 286.56
   LOCATION L0185169     VOLUME   351283.499 3790244.206 284.76
   LOCATION L0185170     VOLUME   351321.955 3790244.060 282.75
   LOCATION L0185171     VOLUME   351360.410 3790243.814 280.91
   LOCATION L0185172     VOLUME   351398.866 3790243.567 279.47
   LOCATION L0185173     VOLUME   351437.321 3790243.321 279.15
   LOCATION L0185174     VOLUME   351475.776 3790243.074 278.60
   LOCATION L0185175     VOLUME   351514.231 3790242.828 278.00
   LOCATION L0185176     VOLUME   351552.687 3790242.581 277.69
   LOCATION L0185177     VOLUME   351591.142 3790242.335 277.41
   LOCATION L0185178     VOLUME   351629.597 3790242.088 277.19
   LOCATION L0185179     VOLUME   351668.052 3790241.842 277.00
   LOCATION L0185180     VOLUME   351706.508 3790241.595 276.84
   LOCATION L0185181     VOLUME   351744.963 3790241.349 276.75
   LOCATION L0185182     VOLUME   351783.418 3790241.102 276.77
   LOCATION L0185183     VOLUME   351821.874 3790240.856 276.79
   LOCATION L0185184     VOLUME   351860.329 3790240.609 276.84
   LOCATION L0185185     VOLUME   351898.784 3790240.362 275.68
   LOCATION L0185186     VOLUME   351937.239 3790240.116 277.23
   LOCATION L0185187     VOLUME   351975.695 3790239.869 278.22
   LOCATION L0185188     VOLUME   352014.150 3790239.623 280.49
   LOCATION L0185189     VOLUME   352052.605 3790239.376 284.33
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Topenga Canyon Blvd - N. of Plummer
** PREFIX
** Length of Side = 37.42
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 10
** 352052.581, 3790293.125, 292.10, 3.66, 34.58
** 351993.878, 3790645.343, 303.99, 3.66, 34.58
** 352111.284, 3790865.480, 284.74, 3.66, 34.58
** 352116.176, 3791134.535, 286.36, 3.84, 34.58
** 352121.068, 3791873.215, 293.88, 3.84, 34.58
** 352140.636, 3793189.142, 304.24, 3.84, 34.58
** 352194.447, 3793419.062, 320.95, 3.84, 34.58
** 352302.069, 3793560.928, 337.69, 3.84, 34.58
** 352277.609, 3793932.714, 392.23, 3.84, 34.58
** 352267.826, 3794118.607, 383.37, 3.84, 34.58
** ----------------------------------------------------------------------
   LOCATION L0185190     VOLUME   352049.505 3790311.580 290.94
   LOCATION L0185191     VOLUME   352037.283 3790384.914 278.40
   LOCATION L0185192     VOLUME   352025.061 3790458.248 277.98
   LOCATION L0185193     VOLUME   352012.838 3790531.582 280.98
   LOCATION L0185194     VOLUME   352000.616 3790604.915 298.37
   LOCATION L0185195     VOLUME   352009.577 3790674.778 297.30
   LOCATION L0185196     VOLUME   352044.563 3790740.377 289.07
   LOCATION L0185197     VOLUME   352079.549 3790805.976 284.62
   LOCATION L0185198     VOLUME   352111.410 3790872.386 284.79
   LOCATION L0185199     VOLUME   352112.761 3790946.719 285.08
   LOCATION L0185200     VOLUME   352114.113 3791021.052 285.43
   LOCATION L0185201     VOLUME   352115.464 3791095.385 286.02
   LOCATION L0185202     VOLUME   352116.409 3791169.723 286.66
   LOCATION L0185203     VOLUME   352116.901 3791244.067 287.30
   LOCATION L0185204     VOLUME   352117.394 3791318.411 288.23
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   LOCATION L0185205     VOLUME   352117.886 3791392.754 289.16
   LOCATION L0185206     VOLUME   352118.378 3791467.098 290.23
   LOCATION L0185207     VOLUME   352118.871 3791541.441 290.84
   LOCATION L0185208     VOLUME   352119.363 3791615.785 291.36
   LOCATION L0185209     VOLUME   352119.855 3791690.129 291.96
   LOCATION L0185210     VOLUME   352120.348 3791764.472 292.83
   LOCATION L0185211     VOLUME   352120.840 3791838.816 293.59
   LOCATION L0185212     VOLUME   352121.662 3791913.156 294.11
   LOCATION L0185213     VOLUME   352122.767 3791987.493 294.53
   LOCATION L0185214     VOLUME   352123.873 3792061.830 295.11
   LOCATION L0185215     VOLUME   352124.978 3792136.167 295.83
   LOCATION L0185216     VOLUME   352126.083 3792210.504 296.69
   LOCATION L0185217     VOLUME   352127.189 3792284.841 297.53
   LOCATION L0185218     VOLUME   352128.294 3792359.179 298.20
   LOCATION L0185219     VOLUME   352129.400 3792433.516 298.36
   LOCATION L0185220     VOLUME   352130.505 3792507.853 298.97
   LOCATION L0185221     VOLUME   352131.610 3792582.190 299.72
   LOCATION L0185222     VOLUME   352132.716 3792656.527 300.42
   LOCATION L0185223     VOLUME   352133.821 3792730.864 300.68
   LOCATION L0185224     VOLUME   352134.926 3792805.201 301.18
   LOCATION L0185225     VOLUME   352136.032 3792879.538 301.50
   LOCATION L0185226     VOLUME   352137.137 3792953.875 302.04
   LOCATION L0185227     VOLUME   352138.243 3793028.212 302.75
   LOCATION L0185228     VOLUME   352139.348 3793102.549 303.52
   LOCATION L0185229     VOLUME   352140.453 3793176.886 304.24
   LOCATION L0185230     VOLUME   352154.785 3793249.597 305.88
   LOCATION L0185231     VOLUME   352171.727 3793321.986 311.81
   LOCATION L0185232     VOLUME   352188.669 3793394.375 318.37
   LOCATION L0185233     VOLUME   352224.056 3793458.093 329.46
   LOCATION L0185234     VOLUME   352268.990 3793517.323 337.98
   LOCATION L0185235     VOLUME   352300.781 3793580.498 338.90
   LOCATION L0185236     VOLUME   352295.901 3793654.683 338.88
   LOCATION L0185237     VOLUME   352291.020 3793728.868 346.97
   LOCATION L0185238     VOLUME   352286.140 3793803.053 366.32
   LOCATION L0185239     VOLUME   352281.259 3793877.238 383.75
   LOCATION L0185240     VOLUME   352276.624 3793951.437 396.68
   LOCATION L0185241     VOLUME   352272.716 3794025.680 379.21
   LOCATION L0185242     VOLUME   352268.809 3794099.922 381.99
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Valley Circle - Roscoe to Woolsey
** PREFIX
** Length of Side = 12.93
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 7
** 348329.830, 3787700.407, 278.96, 3.66, 11.86
** 348339.614, 3788713.035, 285.61, 3.66, 11.86
** 348422.776, 3788796.197, 278.12, 3.66, 11.86
** 348569.534, 3789050.577, 275.14, 3.84, 11.86
** 348628.237, 3789163.091, 274.90, 3.84, 11.86
** 348662.480, 3789329.417, 277.71, 3.84, 11.86
** 348701.616, 3789363.660, 275.95, 3.84, 11.86
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   LOCATION L0185243     VOLUME   348329.892 3787706.872 278.65
   LOCATION L0185244     VOLUME   348330.139 3787732.375 277.28
   LOCATION L0185245     VOLUME   348330.385 3787757.877 276.39
   LOCATION L0185246     VOLUME   348330.632 3787783.380 277.15
   LOCATION L0185247     VOLUME   348330.878 3787808.882 279.39
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   LOCATION L0185248     VOLUME   348331.124 3787834.385 281.50
   LOCATION L0185249     VOLUME   348331.371 3787859.887 282.49
   LOCATION L0185250     VOLUME   348331.617 3787885.390 283.18
   LOCATION L0185251     VOLUME   348331.864 3787910.892 283.94
   LOCATION L0185252     VOLUME   348332.110 3787936.395 284.55
   LOCATION L0185253     VOLUME   348332.356 3787961.897 285.08
   LOCATION L0185254     VOLUME   348332.603 3787987.400 285.92
   LOCATION L0185255     VOLUME   348332.849 3788012.902 287.27
   LOCATION L0185256     VOLUME   348333.096 3788038.405 289.22
   LOCATION L0185257     VOLUME   348333.342 3788063.907 290.91
   LOCATION L0185258     VOLUME   348333.588 3788089.410 292.01
   LOCATION L0185259     VOLUME   348333.835 3788114.912 292.30
   LOCATION L0185260     VOLUME   348334.081 3788140.415 291.71
   LOCATION L0185261     VOLUME   348334.328 3788165.917 289.92
   LOCATION L0185262     VOLUME   348334.574 3788191.420 287.43
   LOCATION L0185263     VOLUME   348334.820 3788216.922 285.64
   LOCATION L0185264     VOLUME   348335.067 3788242.425 285.00
   LOCATION L0185265     VOLUME   348335.313 3788267.927 284.61
   LOCATION L0185266     VOLUME   348335.560 3788293.430 284.43
   LOCATION L0185267     VOLUME   348335.806 3788318.932 284.43
   LOCATION L0185268     VOLUME   348336.052 3788344.435 284.54
   LOCATION L0185269     VOLUME   348336.299 3788369.937 284.59
   LOCATION L0185270     VOLUME   348336.545 3788395.440 284.57
   LOCATION L0185271     VOLUME   348336.792 3788420.942 284.57
   LOCATION L0185272     VOLUME   348337.038 3788446.445 284.70
   LOCATION L0185273     VOLUME   348337.284 3788471.947 285.12
   LOCATION L0185274     VOLUME   348337.531 3788497.450 285.62
   LOCATION L0185275     VOLUME   348337.777 3788522.953 285.96
   LOCATION L0185276     VOLUME   348338.024 3788548.455 286.26
   LOCATION L0185277     VOLUME   348338.270 3788573.958 286.42
   LOCATION L0185278     VOLUME   348338.516 3788599.460 286.54
   LOCATION L0185279     VOLUME   348338.763 3788624.963 286.64
   LOCATION L0185280     VOLUME   348339.009 3788650.465 286.60
   LOCATION L0185281     VOLUME   348339.256 3788675.968 286.19
   LOCATION L0185282     VOLUME   348339.502 3788701.470 285.59
   LOCATION L0185283     VOLUME   348349.470 3788722.891 284.25
   LOCATION L0185284     VOLUME   348367.504 3788740.925 282.34
   LOCATION L0185285     VOLUME   348385.537 3788758.958 281.00
   LOCATION L0185286     VOLUME   348403.571 3788776.992 279.94
   LOCATION L0185287     VOLUME   348421.605 3788795.026 278.40
   LOCATION L0185288     VOLUME   348434.693 3788816.854 276.93
   LOCATION L0185289     VOLUME   348447.438 3788838.945 275.62
   LOCATION L0185290     VOLUME   348460.183 3788861.036 274.95
   LOCATION L0185291     VOLUME   348472.928 3788883.126 274.98
   LOCATION L0185292     VOLUME   348485.672 3788905.217 275.22
   LOCATION L0185293     VOLUME   348498.417 3788927.308 275.67
   LOCATION L0185294     VOLUME   348511.162 3788949.399 275.62
   LOCATION L0185295     VOLUME   348523.907 3788971.490 275.68
   LOCATION L0185296     VOLUME   348536.652 3788993.581 275.66
   LOCATION L0185297     VOLUME   348549.396 3789015.672 275.36
   LOCATION L0185298     VOLUME   348562.141 3789037.763 275.21
   LOCATION L0185299     VOLUME   348574.488 3789060.072 274.97
   LOCATION L0185300     VOLUME   348586.285 3789082.684 275.22
   LOCATION L0185301     VOLUME   348598.082 3789105.295 275.09
   LOCATION L0185302     VOLUME   348609.879 3789127.906 275.07
   LOCATION L0185303     VOLUME   348621.677 3789150.517 275.00
   LOCATION L0185304     VOLUME   348630.520 3789174.180 274.93
   LOCATION L0185305     VOLUME   348635.663 3789199.160 275.27
   LOCATION L0185306     VOLUME   348640.806 3789224.139 275.96
   LOCATION L0185307     VOLUME   348645.949 3789249.119 276.62
   LOCATION L0185308     VOLUME   348651.091 3789274.099 276.38
   LOCATION L0185309     VOLUME   348656.234 3789299.079 276.11
   LOCATION L0185310     VOLUME   348661.377 3789324.059 277.87
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   LOCATION L0185311     VOLUME   348677.557 3789342.609 277.64
   LOCATION L0185312     VOLUME   348696.750 3789359.403 276.41
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Roscoe Blvd
** PREFIX
** Length of Side = 25.33
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 4
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** 349650.648, 3787685.732, 276.53, 3.66, 23.53
** 350531.194, 3787685.732, 256.68, 3.66, 23.53
** 352077.041, 3787690.624, 255.61, 3.84, 23.53
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   LOCATION L0185314     VOLUME   348422.426 3787699.689 277.12
   LOCATION L0185315     VOLUME   348473.007 3787699.114 276.53
   LOCATION L0185316     VOLUME   348523.587 3787698.539 276.00
   LOCATION L0185317     VOLUME   348574.168 3787697.964 274.91
   LOCATION L0185318     VOLUME   348624.748 3787697.390 271.84
   LOCATION L0185319     VOLUME   348675.329 3787696.815 273.46
   LOCATION L0185320     VOLUME   348725.910 3787696.240 271.92
   LOCATION L0185321     VOLUME   348776.490 3787695.665 272.27
   LOCATION L0185322     VOLUME   348827.071 3787695.090 273.94
   LOCATION L0185323     VOLUME   348877.651 3787694.516 276.20
   LOCATION L0185324     VOLUME   348928.232 3787693.941 281.25
   LOCATION L0185325     VOLUME   348978.812 3787693.366 279.36
   LOCATION L0185326     VOLUME   349029.393 3787692.791 274.77
   LOCATION L0185327     VOLUME   349079.974 3787692.217 273.09
   LOCATION L0185328     VOLUME   349130.554 3787691.642 272.78
   LOCATION L0185329     VOLUME   349181.135 3787691.067 272.41
   LOCATION L0185330     VOLUME   349231.715 3787690.492 272.08
   LOCATION L0185331     VOLUME   349282.296 3787689.917 271.38
   LOCATION L0185332     VOLUME   349332.876 3787689.343 267.76
   LOCATION L0185333     VOLUME   349383.457 3787688.768 264.55
   LOCATION L0185334     VOLUME   349434.038 3787688.193 263.75
   LOCATION L0185335     VOLUME   349484.618 3787687.618 264.98
   LOCATION L0185336     VOLUME   349535.199 3787687.044 267.17
   LOCATION L0185337     VOLUME   349585.779 3787686.469 272.95
   LOCATION L0185338     VOLUME   349636.360 3787685.894 276.79
   LOCATION L0185339     VOLUME   349686.943 3787685.732 273.28
   LOCATION L0185340     VOLUME   349737.527 3787685.732 265.66
   LOCATION L0185341     VOLUME   349788.111 3787685.732 261.31
   LOCATION L0185342     VOLUME   349838.694 3787685.732 258.08
   LOCATION L0185343     VOLUME   349889.278 3787685.732 257.49
   LOCATION L0185344     VOLUME   349939.862 3787685.732 256.91
   LOCATION L0185345     VOLUME   349990.446 3787685.732 255.47
   LOCATION L0185346     VOLUME   350041.030 3787685.732 255.71
   LOCATION L0185347     VOLUME   350091.614 3787685.732 256.09
   LOCATION L0185348     VOLUME   350142.197 3787685.732 256.24
   LOCATION L0185349     VOLUME   350192.781 3787685.732 256.32
   LOCATION L0185350     VOLUME   350243.365 3787685.732 256.38
   LOCATION L0185351     VOLUME   350293.949 3787685.732 256.48
   LOCATION L0185352     VOLUME   350344.533 3787685.732 256.66
   LOCATION L0185353     VOLUME   350395.117 3787685.732 256.69
   LOCATION L0185354     VOLUME   350445.700 3787685.732 256.69
   LOCATION L0185355     VOLUME   350496.284 3787685.732 256.76
   LOCATION L0185356     VOLUME   350546.868 3787685.781 256.69
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   LOCATION L0185357     VOLUME   350597.452 3787685.941 256.66
   LOCATION L0185358     VOLUME   350648.035 3787686.101 256.49
   LOCATION L0185359     VOLUME   350698.619 3787686.261 256.31
   LOCATION L0185360     VOLUME   350749.202 3787686.421 256.15
   LOCATION L0185361     VOLUME   350799.786 3787686.582 256.01
   LOCATION L0185362     VOLUME   350850.370 3787686.742 255.90
   LOCATION L0185363     VOLUME   350900.953 3787686.902 255.76
   LOCATION L0185364     VOLUME   350951.537 3787687.062 255.56
   LOCATION L0185365     VOLUME   351002.120 3787687.222 255.25
   LOCATION L0185366     VOLUME   351052.704 3787687.382 255.04
   LOCATION L0185367     VOLUME   351103.288 3787687.542 254.83
   LOCATION L0185368     VOLUME   351153.871 3787687.702 254.59
   LOCATION L0185369     VOLUME   351204.455 3787687.862 254.33
   LOCATION L0185370     VOLUME   351255.038 3787688.022 254.10
   LOCATION L0185371     VOLUME   351305.622 3787688.182 253.90
   LOCATION L0185372     VOLUME   351356.205 3787688.342 253.71
   LOCATION L0185373     VOLUME   351406.789 3787688.502 253.63
   LOCATION L0185374     VOLUME   351457.373 3787688.663 253.58
   LOCATION L0185375     VOLUME   351507.956 3787688.823 253.58
   LOCATION L0185376     VOLUME   351558.540 3787688.983 253.59
   LOCATION L0185377     VOLUME   351609.123 3787689.143 253.69
   LOCATION L0185378     VOLUME   351659.707 3787689.303 253.88
   LOCATION L0185379     VOLUME   351710.291 3787689.463 254.03
   LOCATION L0185380     VOLUME   351760.874 3787689.623 254.22
   LOCATION L0185381     VOLUME   351811.458 3787689.783 254.43
   LOCATION L0185382     VOLUME   351862.041 3787689.943 254.64
   LOCATION L0185383     VOLUME   351912.625 3787690.103 254.89
   LOCATION L0185384     VOLUME   351963.209 3787690.263 255.15
   LOCATION L0185385     VOLUME   352013.792 3787690.423 255.44
   LOCATION L0185386     VOLUME   352064.376 3787690.583 255.61
** End of LINE VOLUME Source ID = SLINE7
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Topenga Canyon - Roscoe to Plummer
** PREFIX
** Length of Side = 30.12
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 13
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** 352077.041, 3788199.383, 259.22, 3.66, 27.84
** 352081.933, 3788443.979, 261.31, 3.66, 27.84
** 352184.663, 3788595.629, 264.11, 3.84, 27.84
** 352282.501, 3788664.116, 266.07, 3.84, 27.84
** 352380.340, 3788771.738, 267.10, 3.84, 27.84
** 352385.232, 3788977.199, 268.94, 3.84, 27.84
** 352228.690, 3789353.876, 272.66, 3.84, 27.84
** 352116.176, 3789574.013, 272.62, 3.84, 27.84
** 352091.716, 3789657.175, 273.44, 3.84, 27.84
** 352086.825, 3789818.609, 275.02, 3.84, 27.84
** 352091.716, 3790004.502, 276.49, 3.84, 27.84
** 352072.149, 3790214.854, 281.68, 3.84, 27.84
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   LOCATION L0185388     VOLUME   352064.729 3787809.528 256.48
   LOCATION L0185389     VOLUME   352066.619 3787869.353 256.69
   LOCATION L0185390     VOLUME   352068.508 3787929.177 257.18
   LOCATION L0185391     VOLUME   352070.397 3787989.002 257.83
   LOCATION L0185392     VOLUME   352072.286 3788048.827 258.14
   LOCATION L0185393     VOLUME   352074.175 3788108.651 258.50
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   LOCATION L0185395     VOLUME   352077.619 3788228.309 259.51
   LOCATION L0185396     VOLUME   352078.816 3788288.152 259.79
   LOCATION L0185397     VOLUME   352080.013 3788347.994 260.41
   LOCATION L0185398     VOLUME   352081.210 3788407.837 261.12
   LOCATION L0185399     VOLUME   352095.227 3788463.605 261.43
   LOCATION L0185400     VOLUME   352128.797 3788513.159 262.56
   LOCATION L0185401     VOLUME   352162.366 3788562.714 263.35
   LOCATION L0185402     VOLUME   352201.128 3788607.154 264.39
   LOCATION L0185403     VOLUME   352250.163 3788641.479 266.07
   LOCATION L0185404     VOLUME   352296.211 3788679.196 266.83
   LOCATION L0185405     VOLUME   352336.473 3788723.485 266.87
   LOCATION L0185406     VOLUME   352376.736 3788767.773 267.06
   LOCATION L0185407     VOLUME   352381.637 3788826.219 267.63
   LOCATION L0185408     VOLUME   352383.062 3788886.057 268.12
   LOCATION L0185409     VOLUME   352384.486 3788945.894 268.57
   LOCATION L0185410     VOLUME   352374.279 3789003.554 269.67
   LOCATION L0185411     VOLUME   352351.309 3789058.826 270.45
   LOCATION L0185412     VOLUME   352328.339 3789114.097 271.51
   LOCATION L0185413     VOLUME   352305.369 3789169.369 271.79
   LOCATION L0185414     VOLUME   352282.399 3789224.640 271.97
   LOCATION L0185415     VOLUME   352259.429 3789279.912 271.97
   LOCATION L0185416     VOLUME   352236.459 3789335.183 272.78
   LOCATION L0185417     VOLUME   352210.663 3789389.148 272.06
   LOCATION L0185418     VOLUME   352183.422 3789442.444 268.44
   LOCATION L0185419     VOLUME   352156.182 3789495.741 272.38
   LOCATION L0185420     VOLUME   352128.941 3789549.037 272.32
   LOCATION L0185421     VOLUME   352107.201 3789604.526 273.11
   LOCATION L0185422     VOLUME   352091.566 3789662.148 273.53
   LOCATION L0185423     VOLUME   352089.753 3789721.975 274.23
   LOCATION L0185424     VOLUME   352087.940 3789781.802 274.77
   LOCATION L0185425     VOLUME   352087.430 3789841.632 275.08
   LOCATION L0185426     VOLUME   352089.005 3789901.466 275.66
   LOCATION L0185427     VOLUME   352090.580 3789961.300 276.41
   LOCATION L0185428     VOLUME   352090.175 3790021.068 276.53
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** End of LINE VOLUME Source ID = SLINE8
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Topenga Canyon - South of Roscoe
** PREFIX
** Length of Side = 30.12
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 21
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** 352037.905, 3786448.076, 248.69, 3.84, 27.73
** 352047.689, 3785983.343, 245.55, 3.84, 27.73
** 352037.905, 3785684.936, 244.18, 3.84, 27.73
** 352028.121, 3785484.368, 243.54, 3.84, 27.73
** 352028.121, 3785063.662, 242.97, 3.84, 27.73
** 352023.230, 3784721.228, 243.63, 3.84, 27.73
** 352028.121, 3784310.307, 245.49, 3.84, 27.73
** 352013.446, 3784065.711, 246.90, 3.84, 27.73
** 352008.554, 3783772.196, 248.72, 3.84, 27.73
** 352013.446, 3783561.843, 250.82, 3.84, 27.73
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** 352013.446, 3783375.950, 253.20, 3.84, 27.73
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** 352101.500, 3783033.516, 262.23, 3.84, 27.73
** 352028.121, 3782847.623, 264.19, 3.84, 27.73
** 352008.554, 3782710.649, 263.47, 3.84, 27.73
** 351998.770, 3782470.945, 266.37, 3.84, 27.73
** 351998.770, 3782265.484, 268.92, 3.84, 27.73
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   LOCATION L0185434     VOLUME   352060.596 3787497.638 254.43
   LOCATION L0185435     VOLUME   352061.982 3787438.025 253.99
   LOCATION L0185436     VOLUME   352063.369 3787378.412 253.66
   LOCATION L0185437     VOLUME   352064.755 3787318.799 253.45
   LOCATION L0185438     VOLUME   352066.141 3787259.186 253.21
   LOCATION L0185439     VOLUME   352067.257 3787199.570 253.07
   LOCATION L0185440     VOLUME   352067.257 3787139.941 252.79
   LOCATION L0185441     VOLUME   352067.257 3787080.311 252.63
   LOCATION L0185442     VOLUME   352067.257 3787020.682 252.39
   LOCATION L0185443     VOLUME   352067.257 3786961.053 252.20
   LOCATION L0185444     VOLUME   352067.257 3786901.424 251.84
   LOCATION L0185445     VOLUME   352067.257 3786841.795 251.24
   LOCATION L0185446     VOLUME   352067.257 3786782.166 250.83
   LOCATION L0185447     VOLUME   352066.303 3786722.586 250.67
   LOCATION L0185448     VOLUME   352060.167 3786663.273 250.25
   LOCATION L0185449     VOLUME   352054.031 3786603.960 249.75
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   LOCATION L0185451     VOLUME   352041.760 3786485.335 248.96
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   LOCATION L0185453     VOLUME   352039.627 3786366.293 248.07
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   LOCATION L0185456     VOLUME   352043.392 3786187.445 246.79
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   LOCATION L0185459     VOLUME   352047.157 3786008.598 245.68
   LOCATION L0185460     VOLUME   352046.563 3785948.992 245.33
   LOCATION L0185461     VOLUME   352044.609 3785889.395 245.04
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   LOCATION L0185467     VOLUME   352030.441 3785531.912 243.68
   LOCATION L0185468     VOLUME   352028.121 3785472.339 243.48
   LOCATION L0185469     VOLUME   352028.121 3785412.710 243.29
   LOCATION L0185470     VOLUME   352028.121 3785353.081 243.09
   LOCATION L0185471     VOLUME   352028.121 3785293.452 242.98
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   LOCATION L0185473     VOLUME   352028.121 3785174.193 242.98
   LOCATION L0185474     VOLUME   352028.121 3785114.564 242.90
   LOCATION L0185475     VOLUME   352027.997 3785054.936 242.98
   LOCATION L0185476     VOLUME   352027.145 3784995.313 242.98
   LOCATION L0185477     VOLUME   352026.293 3784935.690 243.08
   LOCATION L0185478     VOLUME   352025.442 3784876.066 243.23
   LOCATION L0185479     VOLUME   352024.590 3784816.443 243.38
   LOCATION L0185480     VOLUME   352023.738 3784756.820 243.56
   LOCATION L0185481     VOLUME   352023.516 3784697.196 243.78
   LOCATION L0185482     VOLUME   352024.225 3784637.571 244.02
   LOCATION L0185483     VOLUME   352024.935 3784577.946 244.19
   LOCATION L0185484     VOLUME   352025.645 3784518.321 244.41
   LOCATION L0185485     VOLUME   352026.355 3784458.696 244.59
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   LOCATION L0185487     VOLUME   352027.775 3784339.447 245.30
   LOCATION L0185488     VOLUME   352026.296 3784279.874 245.76
   LOCATION L0185489     VOLUME   352022.724 3784220.352 246.18
   LOCATION L0185490     VOLUME   352019.153 3784160.830 246.48
   LOCATION L0185491     VOLUME   352015.582 3784101.308 246.75
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   LOCATION L0185494     VOLUME   352011.059 3783922.504 247.53
   LOCATION L0185495     VOLUME   352010.065 3783862.883 247.92
   LOCATION L0185496     VOLUME   352009.072 3783803.262 248.51
   LOCATION L0185497     VOLUME   352009.218 3783743.645 249.01
   LOCATION L0185498     VOLUME   352010.604 3783684.032 249.51
   LOCATION L0185499     VOLUME   352011.990 3783624.419 250.21
   LOCATION L0185500     VOLUME   352013.377 3783564.806 250.77
   LOCATION L0185501     VOLUME   352013.446 3783505.177 251.60
   LOCATION L0185502     VOLUME   352013.446 3783445.548 252.39
   LOCATION L0185503     VOLUME   352013.446 3783385.919 253.13
   LOCATION L0185504     VOLUME   352020.469 3783326.789 253.91
   LOCATION L0185505     VOLUME   352029.767 3783267.955 255.27
   LOCATION L0185506     VOLUME   352047.553 3783211.040 256.30
   LOCATION L0185507     VOLUME   352065.339 3783154.125 257.31
   LOCATION L0185508     VOLUME   352082.796 3783097.110 263.30
   LOCATION L0185509     VOLUME   352099.621 3783039.904 262.78
   LOCATION L0185510     VOLUME   352082.051 3782984.245 264.69
   LOCATION L0185511     VOLUME   352060.158 3782928.781 261.43
   LOCATION L0185512     VOLUME   352038.264 3782873.316 263.52
   LOCATION L0185513     VOLUME   352023.595 3782815.938 263.47
   LOCATION L0185514     VOLUME   352015.162 3782756.908 263.01
   LOCATION L0185515     VOLUME   352008.028 3782697.760 263.50
   LOCATION L0185516     VOLUME   352005.596 3782638.180 264.07
   LOCATION L0185517     VOLUME   352003.164 3782578.600 264.67
   LOCATION L0185518     VOLUME   352000.732 3782519.021 265.75
   LOCATION L0185519     VOLUME   351998.770 3782459.432 266.58
   LOCATION L0185520     VOLUME   351998.770 3782399.803 267.46
   LOCATION L0185521     VOLUME   351998.770 3782340.173 268.15
   LOCATION L0185522     VOLUME   351998.770 3782280.544 268.75
** End of LINE VOLUME Source ID = SLINE9
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Valley Circle - South of Rosce
** PREFIX
** Length of Side = 23.27
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 36
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** 348452.128, 3787323.730, 287.26, 3.66, 21.52
** 348461.912, 3787230.783, 281.82, 3.84, 21.52
** 348378.749, 3787025.322, 283.85, 3.84, 21.52
** 348339.614, 3786951.944, 280.37, 3.84, 21.52
** 348329.830, 3786819.862, 279.61, 3.84, 21.52
** 348300.478, 3786687.780, 280.85, 3.84, 21.52
** 348217.316, 3786531.238, 289.49, 3.84, 21.52
** 348099.910, 3786467.643, 299.37, 3.84, 21.52
** 347914.017, 3786423.616, 307.64, 3.84, 21.52
** 347742.799, 3786369.805, 303.48, 3.84, 21.52
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** 347468.852, 3785958.884, 286.04, 3.84, 21.52
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** 347302.527, 3784686.985, 277.35, 3.84, 21.52
** 347449.284, 3784349.442, 274.75, 3.84, 21.52
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** 349019.591, 3781433.858, 276.36, 3.84, 21.52
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   LOCATION L0185526     VOLUME   348382.560 3787536.978 283.12
   LOCATION L0185527     VOLUME   348400.281 3787494.237 281.74
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   LOCATION L0185529     VOLUME   348428.209 3787406.115 281.52
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   LOCATION L0185531     VOLUME   348452.835 3787317.016 288.05
   LOCATION L0185532     VOLUME   348457.678 3787271.001 287.73
   LOCATION L0185533     VOLUME   348459.725 3787225.380 281.30
   LOCATION L0185534     VOLUME   348442.365 3787182.491 281.31
   LOCATION L0185535     VOLUME   348425.005 3787139.602 285.63
   LOCATION L0185536     VOLUME   348407.645 3787096.712 291.38
   LOCATION L0185537     VOLUME   348390.285 3787053.823 289.00
   LOCATION L0185538     VOLUME   348371.445 3787011.627 282.24
   LOCATION L0185539     VOLUME   348349.671 3786970.801 280.29
   LOCATION L0185540     VOLUME   348337.774 3786927.114 280.24
   LOCATION L0185541     VOLUME   348334.356 3786880.971 280.00
   LOCATION L0185542     VOLUME   348330.939 3786834.828 279.71
   LOCATION L0185543     VOLUME   348323.048 3786789.345 279.70
   LOCATION L0185544     VOLUME   348313.011 3786744.177 280.11
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   LOCATION L0185547     VOLUME   348262.461 3786616.217 282.87
   LOCATION L0185548     VOLUME   348240.753 3786575.356 285.81
   LOCATION L0185549     VOLUME   348219.046 3786534.495 289.30
   LOCATION L0185550     VOLUME   348179.874 3786510.958 293.79
   LOCATION L0185551     VOLUME   348139.190 3786488.920 295.19
   LOCATION L0185552     VOLUME   348098.356 3786467.276 299.47
   LOCATION L0185553     VOLUME   348053.333 3786456.612 304.58
   LOCATION L0185554     VOLUME   348008.309 3786445.949 309.75
   LOCATION L0185555     VOLUME   347963.285 3786435.285 309.77
   LOCATION L0185556     VOLUME   347918.262 3786424.622 307.59
   LOCATION L0185557     VOLUME   347874.038 3786411.051 304.03
   LOCATION L0185558     VOLUME   347829.897 3786397.179 304.41
   LOCATION L0185559     VOLUME   347785.757 3786383.306 304.14
   LOCATION L0185560     VOLUME   347742.091 3786368.787 302.42
   LOCATION L0185561     VOLUME   347715.648 3786330.819 300.05
   LOCATION L0185562     VOLUME   347689.206 3786292.850 298.43
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   LOCATION L0185564     VOLUME   347636.321 3786216.912 296.51
   LOCATION L0185565     VOLUME   347609.878 3786178.943 294.56
   LOCATION L0185566     VOLUME   347583.435 3786140.975 291.25
   LOCATION L0185567     VOLUME   347556.993 3786103.006 288.87
   LOCATION L0185568     VOLUME   347532.523 3786063.753 287.56
   LOCATION L0185569     VOLUME   347508.510 3786024.203 287.61
   LOCATION L0185570     VOLUME   347484.497 3785984.653 285.93
   LOCATION L0185571     VOLUME   347466.271 3785942.969 286.95
   LOCATION L0185572     VOLUME   347458.865 3785897.297 290.68
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   LOCATION L0185574     VOLUME   347444.052 3785805.951 294.33
   LOCATION L0185575     VOLUME   347436.646 3785760.279 290.83
   LOCATION L0185576     VOLUME   347429.239 3785714.606 288.47
   LOCATION L0185577     VOLUME   347421.833 3785668.934 287.86
   LOCATION L0185578     VOLUME   347414.427 3785623.261 282.33
   LOCATION L0185579     VOLUME   347407.669 3785577.495 277.32
   LOCATION L0185580     VOLUME   347401.799 3785531.599 274.68
   LOCATION L0185581     VOLUME   347395.928 3785485.704 272.93
   LOCATION L0185582     VOLUME   347390.058 3785439.809 267.48
   LOCATION L0185583     VOLUME   347384.188 3785393.913 268.23
   LOCATION L0185584     VOLUME   347378.317 3785348.018 269.20
   LOCATION L0185585     VOLUME   347372.447 3785302.123 270.19
   LOCATION L0185586     VOLUME   347366.577 3785256.228 273.42
   LOCATION L0185587     VOLUME   347360.707 3785210.332 273.83
   LOCATION L0185588     VOLUME   347355.031 3785164.414 273.17
   LOCATION L0185589     VOLUME   347349.921 3785118.428 273.78
   LOCATION L0185590     VOLUME   347344.812 3785072.441 273.80
   LOCATION L0185591     VOLUME   347339.702 3785026.455 273.79
   LOCATION L0185592     VOLUME   347334.592 3784980.469 273.19
   LOCATION L0185593     VOLUME   347329.483 3784934.483 272.89
   LOCATION L0185594     VOLUME   347324.373 3784888.497 272.78
   LOCATION L0185595     VOLUME   347319.264 3784842.510 273.15
   LOCATION L0185596     VOLUME   347314.154 3784796.524 273.94
   LOCATION L0185597     VOLUME   347309.215 3784750.520 274.45
   LOCATION L0185598     VOLUME   347304.371 3784704.505 276.08
   LOCATION L0185599     VOLUME   347313.951 3784660.709 277.08
   LOCATION L0185600     VOLUME   347332.400 3784618.276 275.85
   LOCATION L0185601     VOLUME   347350.848 3784575.844 275.14
   LOCATION L0185602     VOLUME   347369.297 3784533.412 275.09
   LOCATION L0185603     VOLUME   347387.746 3784490.980 274.30
   LOCATION L0185604     VOLUME   347406.195 3784448.548 273.02
   LOCATION L0185605     VOLUME   347424.643 3784406.116 273.80
   LOCATION L0185606     VOLUME   347443.092 3784363.684 274.44
   LOCATION L0185607     VOLUME   347450.746 3784318.737 274.99
   LOCATION L0185608     VOLUME   347452.947 3784272.521 274.75
   LOCATION L0185609     VOLUME   347451.816 3784226.417 274.58
   LOCATION L0185610     VOLUME   347446.472 3784180.458 274.64
   LOCATION L0185611     VOLUME   347441.128 3784134.498 275.00
   LOCATION L0185612     VOLUME   347435.784 3784088.539 276.50
   LOCATION L0185613     VOLUME   347430.440 3784042.579 279.97
   LOCATION L0185614     VOLUME   347425.199 3783996.608 282.15
   LOCATION L0185615     VOLUME   347419.975 3783950.635 282.39
   LOCATION L0185616     VOLUME   347414.751 3783904.661 282.31
   LOCATION L0185617     VOLUME   347409.527 3783858.688 282.15
   LOCATION L0185618     VOLUME   347404.352 3783812.709 281.65
   LOCATION L0185619     VOLUME   347399.398 3783766.706 281.27
   LOCATION L0185620     VOLUME   347394.443 3783720.703 281.76
   LOCATION L0185621     VOLUME   347389.489 3783674.700 282.33
   LOCATION L0185622     VOLUME   347384.535 3783628.697 282.31
   LOCATION L0185623     VOLUME   347379.581 3783582.693 281.33
   LOCATION L0185624     VOLUME   347374.627 3783536.690 281.88
   LOCATION L0185625     VOLUME   347373.579 3783490.881 281.84
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LOCATION	L0185626	VOLUME	347383.058	3783445.593 281.58
LOCATION	L0185627	VOLUME	347392.537	3783400.305 282.15
LOCATION	L0185628	VOLUME	347402.016	3783355.017 283.70
LOCATION	L0185629	VOLUME	347411.495	3783309.729 287.15
LOCATION	L0185630	VOLUME	347432.730	3783269.857 285.11
LOCATION	L0185631	VOLUME	347460.991	3783233.222 281.59
LOCATION	L0185632	VOLUME	347489.252	3783196.587 281.39
LOCATION	L0185633	VOLUME	347517.514	3783159.952 296.68
LOCATION	L0185634	VOLUME	347545.775	3783123.317 307.86
LOCATION	L0185635	VOLUME	347586.331	3783101.463 313.55
LOCATION	L0185636	VOLUME	347627.502	3783080.350 305.97
LOCATION	L0185637	VOLUME	347668.673	3783059.237 297.36
LOCATION	L0185638	VOLUME	347709.844	3783038.123 291.57
LOCATION	L0185639	VOLUME	347748.654	3783013.657 289.93
LOCATION	L0185640	VOLUME	347782.409	3782982.011 289.66
LOCATION	L0185641	VOLUME	347816.164	3782950.366 290.34
LOCATION	L0185642	VOLUME	347849.920	3782918.720 290.86
LOCATION	L0185643	VOLUME	347883.675	3782887.075 290.36
LOCATION	L0185644	VOLUME	347917.430	3782855.430 289.77
LOCATION	L0185645	VOLUME	347951.185	3782823.784 289.31
LOCATION	L0185646	VOLUME	347984.830	3782792.023 288.92
LOCATION	L0185647	VOLUME	348018.282	3782760.058 288.48
LOCATION	L0185648	VOLUME	348051.735	3782728.092 286.72
LOCATION	L0185649	VOLUME	348085.187	3782696.127 284.79
LOCATION	L0185650	VOLUME	348118.639	3782664.161 283.79
LOCATION	L0185651	VOLUME	348152.091	3782632.196 282.83
LOCATION	L0185652	VOLUME	348185.543	3782600.230 281.46
LOCATION	L0185653	VOLUME	348215.882	3782565.369 282.16
LOCATION	L0185654	VOLUME	348245.350	3782529.697 281.87
LOCATION	L0185655	VOLUME	348274.818	3782494.025 281.39
LOCATION	L0185656	VOLUME	348304.286	3782458.354 281.45
LOCATION	L0185657	VOLUME	348333.754	3782422.682 280.86
LOCATION	L0185658	VOLUME	348363.222	3782387.010 281.23
LOCATION	L0185659	VOLUME	348391.573	3782350.475 282.42
LOCATION	L0185660	VOLUME	348418.680	3782312.977 283.48
LOCATION	L0185661	VOLUME	348445.786	3782275.479 283.07
LOCATION	L0185662	VOLUME	348472.893	3782237.982 284.57
LOCATION	L0185663	VOLUME	348500.000	3782200.484 283.93
LOCATION	L0185664	VOLUME	348527.106	3782162.987 283.70
LOCATION	L0185665	VOLUME	348554.213	3782125.489 283.53
LOCATION	L0185666	VOLUME	348581.320	3782087.992 285.23
LOCATION	L0185667	VOLUME	348608.426	3782050.494 286.44
LOCATION	L0185668	VOLUME	348635.533	3782012.997 283.89
LOCATION	L0185669	VOLUME	348662.640	3781975.499 281.59
LOCATION	L0185670	VOLUME	348689.250	3781937.650 281.96
LOCATION	L0185671	VOLUME	348715.587	3781899.608 284.80
LOCATION	L0185672	VOLUME	348741.924	3781861.566 289.91
LOCATION	L0185673	VOLUME	348768.261	3781823.524 291.75
LOCATION	L0185674	VOLUME	348794.597	3781785.482 287.44
LOCATION	L0185675	VOLUME	348820.934	3781747.440 282.21
LOCATION	L0185676	VOLUME	348847.271	3781709.397 281.51
LOCATION	L0185677	VOLUME	348873.608	3781671.355 282.39
LOCATION	L0185678	VOLUME	348899.945	3781633.313 282.62
LOCATION	L0185679	VOLUME	348926.282	3781595.271 280.67
LOCATION	L0185680	VOLUME	348952.490	3781557.140 279.36
LOCATION	L0185681	VOLUME	348978.617	3781518.954 278.96
LOCATION	L0185682	VOLUME	349002.881	3781479.810 275.06
LOCATION	L0185683	VOLUME	349018.693	3781436.327 276.12
LOCATION	L0185684	VOLUME	349014.391	3781390.527 277.37
LOCATION	L0185685	VOLUME	349008.878	3781344.587 278.42
LOCATION	L0185686	VOLUME	349005.810	3781298.586 278.73
LOCATION	L0185687	VOLUME	349008.993	3781252.426 278.66
LOCATION	L0185688	VOLUME	349012.176	3781206.267 279.15

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   LOCATION L0185689     VOLUME   349018.830 3781161.018 279.85
   LOCATION L0185690     VOLUME   349038.723 3781119.243 280.16
   LOCATION L0185691     VOLUME   349058.616 3781077.468 280.42
** End of LINE VOLUME Source ID = SLINE10
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Valley Circle - North of Woolsey
** PREFIX
** Length of Side = 13.65
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 3
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** 348795.259, 3789449.246, 280.04, 3.66, 12.17
** 348683.568, 3789672.627, 289.30, 3.66, 12.17
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   LOCATION L0185692     VOLUME   348723.854 3789383.334 275.67
   LOCATION L0185693     VOLUME   348743.077 3789401.079 275.52
   LOCATION L0185694     VOLUME   348762.301 3789418.824 275.78
   LOCATION L0185695     VOLUME   348781.524 3789436.568 277.66
   LOCATION L0185696     VOLUME   348791.918 3789455.928 278.32
   LOCATION L0185697     VOLUME   348780.218 3789479.327 277.55
   LOCATION L0185698     VOLUME   348768.519 3789502.727 278.69
   LOCATION L0185699     VOLUME   348756.819 3789526.126 280.37
   LOCATION L0185700     VOLUME   348745.119 3789549.526 282.00
   LOCATION L0185701     VOLUME   348733.419 3789572.925 285.40
   LOCATION L0185702     VOLUME   348721.720 3789596.324 287.46
   LOCATION L0185703     VOLUME   348710.020 3789619.724 288.73
   LOCATION L0185704     VOLUME   348698.320 3789643.123 289.21
   LOCATION L0185705     VOLUME   348686.620 3789666.523 289.26
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Lake Manor Drive
** PREFIX
** Length of Side = 12.67
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 10
** 348707.082, 3789672.627, 291.59, 3.66, 11.78
** 348906.949, 3789719.655, 288.83, 3.66, 11.78
** 349012.761, 3789707.898, 283.15, 3.66, 11.78
** 349206.750, 3789784.318, 279.82, 3.84, 11.78
** 349277.291, 3789801.953, 289.12, 3.84, 11.78
** 349406.617, 3789772.561, 285.29, 3.84, 11.78
** 349518.308, 3789737.290, 284.91, 3.84, 11.78
** 349562.267, 3789734.998, 286.50, 3.84, 11.78
** 349578.481, 3789726.494, 285.46, 3.84, 11.78
** 349685.714, 3789782.284, 284.42, 3.84, 11.78
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   LOCATION L0185706     VOLUME   348713.249 3789674.078 292.68
   LOCATION L0185707     VOLUME   348737.907 3789679.880 292.25
   LOCATION L0185708     VOLUME   348762.566 3789685.682 290.68
   LOCATION L0185709     VOLUME   348787.225 3789691.484 289.03
   LOCATION L0185710     VOLUME   348811.884 3789697.286 288.11
   LOCATION L0185711     VOLUME   348836.542 3789703.089 287.51
   LOCATION L0185712     VOLUME   348861.201 3789708.891 287.30
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   LOCATION L0185713     VOLUME   348885.860 3789714.693 287.54
   LOCATION L0185714     VOLUME   348910.594 3789719.250 288.67
   LOCATION L0185715     VOLUME   348935.771 3789716.452 289.25
   LOCATION L0185716     VOLUME   348960.948 3789713.655 288.09
   LOCATION L0185717     VOLUME   348986.125 3789710.858 284.55
   LOCATION L0185718     VOLUME   349011.303 3789708.060 282.67
   LOCATION L0185719     VOLUME   349034.965 3789716.645 281.36
   LOCATION L0185720     VOLUME   349058.534 3789725.930 279.84
   LOCATION L0185721     VOLUME   349082.103 3789735.215 278.08
   LOCATION L0185722     VOLUME   349105.673 3789744.499 277.12
   LOCATION L0185723     VOLUME   349129.242 3789753.784 276.25
   LOCATION L0185724     VOLUME   349152.811 3789763.069 275.62
   LOCATION L0185725     VOLUME   349176.380 3789772.354 276.35
   LOCATION L0185726     VOLUME   349199.950 3789781.639 278.75
   LOCATION L0185727     VOLUME   349224.235 3789788.689 282.43
   LOCATION L0185728     VOLUME   349248.811 3789794.833 286.84
   LOCATION L0185729     VOLUME   349273.387 3789800.977 289.08
   LOCATION L0185730     VOLUME   349298.069 3789797.231 288.11
   LOCATION L0185731     VOLUME   349322.771 3789791.617 287.07
   LOCATION L0185732     VOLUME   349347.473 3789786.003 286.19
   LOCATION L0185733     VOLUME   349372.175 3789780.389 285.71
   LOCATION L0185734     VOLUME   349396.878 3789774.774 285.35
   LOCATION L0185735     VOLUME   349421.249 3789767.940 284.70
   LOCATION L0185736     VOLUME   349445.405 3789760.312 284.43
   LOCATION L0185737     VOLUME   349469.562 3789752.684 284.87
   LOCATION L0185738     VOLUME   349493.718 3789745.055 285.48
   LOCATION L0185739     VOLUME   349517.874 3789737.427 285.57
   LOCATION L0185740     VOLUME   349543.152 3789735.995 286.01
   LOCATION L0185741     VOLUME   349567.750 3789732.123 286.60
   LOCATION L0185742     VOLUME   349590.204 3789732.593 285.31
   LOCATION L0185743     VOLUME   349612.676 3789744.285 284.36
   LOCATION L0185744     VOLUME   349635.149 3789755.977 285.10
   LOCATION L0185745     VOLUME   349657.622 3789767.669 286.17
   LOCATION L0185746     VOLUME   349680.094 3789779.360 285.03
** End of LINE VOLUME Source ID = SLINE13
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Valley Circle - E. of Plumer
** PREFIX
** Length of Side = 13.65
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 10
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** 349744.019, 3789828.320, 275.99, 3.66, 12.45
** 349805.391, 3789846.732, 275.73, 3.66, 12.45
** 349946.547, 3789920.378, 275.35, 3.84, 12.45
** 350004.851, 3789932.653, 276.09, 3.84, 12.45
** 350179.762, 3789972.545, 283.94, 3.84, 12.45
** 350299.438, 3789997.094, 283.67, 3.84, 12.45
** 350419.114, 3790073.809, 284.62, 3.84, 12.45
** 350554.133, 3790181.210, 285.22, 3.84, 12.45
** 350683.015, 3790260.994, 285.12, 3.84, 12.45
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   LOCATION L0185747     VOLUME   349705.884 3789790.185 283.56
   LOCATION L0185748     VOLUME   349724.817 3789809.119 280.06
   LOCATION L0185749     VOLUME   349743.751 3789828.052 276.58
   LOCATION L0185750     VOLUME   349769.302 3789835.905 276.08
   LOCATION L0185751     VOLUME   349794.949 3789843.599 276.22
   LOCATION L0185752     VOLUME   349819.464 3789854.074 276.92
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   LOCATION L0185754     VOLUME   349866.942 3789878.845 276.65
   LOCATION L0185755     VOLUME   349890.681 3789891.231 276.08
   LOCATION L0185756     VOLUME   349914.420 3789903.616 275.34
   LOCATION L0185757     VOLUME   349938.159 3789916.002 275.42
   LOCATION L0185758     VOLUME   349963.490 3789923.945 275.36
   LOCATION L0185759     VOLUME   349989.691 3789929.461 275.72
   LOCATION L0185760     VOLUME   350015.852 3789935.162 276.62
   LOCATION L0185761     VOLUME   350041.958 3789941.116 277.57
   LOCATION L0185762     VOLUME   350068.063 3789947.070 278.57
   LOCATION L0185763     VOLUME   350094.168 3789953.023 279.36
   LOCATION L0185764     VOLUME   350120.274 3789958.977 280.26
   LOCATION L0185765     VOLUME   350146.379 3789964.931 283.08
   LOCATION L0185766     VOLUME   350172.484 3789970.885 283.76
   LOCATION L0185767     VOLUME   350198.679 3789976.425 283.71
   LOCATION L0185768     VOLUME   350224.909 3789981.806 283.49
   LOCATION L0185769     VOLUME   350251.138 3789987.186 283.13
   LOCATION L0185770     VOLUME   350277.368 3789992.566 283.10
   LOCATION L0185771     VOLUME   350303.012 3789999.385 283.81
   LOCATION L0185772     VOLUME   350325.554 3790013.835 284.47
   LOCATION L0185773     VOLUME   350348.096 3790028.285 285.07
   LOCATION L0185774     VOLUME   350370.638 3790042.735 285.35
   LOCATION L0185775     VOLUME   350393.180 3790057.185 284.78
   LOCATION L0185776     VOLUME   350415.722 3790071.635 284.61
   LOCATION L0185777     VOLUME   350436.915 3790087.969 284.63
   LOCATION L0185778     VOLUME   350457.870 3790104.638 284.76
   LOCATION L0185779     VOLUME   350478.825 3790121.306 284.86
   LOCATION L0185780     VOLUME   350499.779 3790137.975 284.93
   LOCATION L0185781     VOLUME   350520.734 3790154.643 285.04
   LOCATION L0185782     VOLUME   350541.689 3790171.312 285.18
   LOCATION L0185783     VOLUME   350563.379 3790186.935 285.26
   LOCATION L0185784     VOLUME   350586.146 3790201.028 285.20
   LOCATION L0185785     VOLUME   350608.912 3790215.122 285.04
   LOCATION L0185786     VOLUME   350631.679 3790229.215 285.00
   LOCATION L0185787     VOLUME   350654.445 3790243.309 285.03
   LOCATION L0185788     VOLUME   350677.211 3790257.402 285.15
** End of LINE VOLUME Source ID = SLINE14
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** DESCRSRC Woolsey Canyon Blvd
** PREFIX
** Length of Side = 14.00
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 57
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   LOCATION L0185793     VOLUME   346048.436 3789846.842 583.03
   LOCATION L0185794     VOLUME   346074.197 3789836.039 579.29
   LOCATION L0185795     VOLUME   346099.958 3789825.236 576.50
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   LOCATION L0185797     VOLUME   346146.281 3789795.888 568.66
   LOCATION L0185798     VOLUME   346166.033 3789776.135 568.20
   LOCATION L0185799     VOLUME   346186.883 3789757.864 565.28
   LOCATION L0185800     VOLUME   346211.531 3789744.718 563.31
   LOCATION L0185801     VOLUME   346236.179 3789731.573 558.29
   LOCATION L0185802     VOLUME   346260.826 3789718.427 554.94
   LOCATION L0185803     VOLUME   346285.005 3789704.470 553.60
   LOCATION L0185804     VOLUME   346308.693 3789689.665 555.42
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   LOCATION L0185806     VOLUME   346357.512 3789663.784 553.26
   LOCATION L0185807     VOLUME   346384.996 3789658.787 551.51
   LOCATION L0185808     VOLUME   346412.479 3789653.790 547.44
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   LOCATION L0185813     VOLUME   346551.302 3789639.429 538.06
   LOCATION L0185814     VOLUME   346578.786 3789634.432 538.21
   LOCATION L0185815     VOLUME   346599.229 3789619.689 535.39
   LOCATION L0185816     VOLUME   346612.149 3789594.959 531.24
   LOCATION L0185817     VOLUME   346621.806 3789568.747 529.45
   LOCATION L0185818     VOLUME   346631.463 3789542.535 525.76
   LOCATION L0185819     VOLUME   346632.445 3789514.776 523.14
   LOCATION L0185820     VOLUME   346621.713 3789492.403 521.15
   LOCATION L0185821     VOLUME   346598.892 3789476.294 520.11
   LOCATION L0185822     VOLUME   346575.270 3789461.953 518.64
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   LOCATION L0185824     VOLUME   346520.944 3789448.915 514.47
   LOCATION L0185825     VOLUME   346496.450 3789437.630 514.47
   LOCATION L0185826     VOLUME   346494.639 3789414.423 512.45
   LOCATION L0185827     VOLUME   346517.837 3789403.623 511.07
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   LOCATION L0185829     VOLUME   346572.875 3789395.645 504.55
   LOCATION L0185830     VOLUME   346600.809 3789395.645 502.44
   LOCATION L0185831     VOLUME   346628.743 3789395.645 498.98
   LOCATION L0185832     VOLUME   346656.678 3789395.645 495.82
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   LOCATION L0185835     VOLUME   346739.747 3789400.878 490.78
   LOCATION L0185836     VOLUME   346766.607 3789408.552 489.71
   LOCATION L0185837     VOLUME   346793.466 3789416.226 486.30
   LOCATION L0185838     VOLUME   346820.325 3789423.900 484.12
   LOCATION L0185839     VOLUME   346847.548 3789430.074 481.83
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   LOCATION L0185841     VOLUME   346901.092 3789425.702 475.44
   LOCATION L0185842     VOLUME   346927.248 3789415.894 472.84
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   LOCATION L0185844     VOLUME   346980.982 3789414.638 468.09
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   LOCATION L0185847     VOLUME   347062.878 3789432.374 459.94
   LOCATION L0185848     VOLUME   347090.053 3789438.844 458.46
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   LOCATION L0185850     VOLUME   347145.081 3789448.311 457.46
   LOCATION L0185851     VOLUME   347172.691 3789452.559 455.29
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   LOCATION L0185854     VOLUME   347242.892 3789478.232 446.91
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   LOCATION L0185856     VOLUME   347224.228 3789525.733 443.98
   LOCATION L0185857     VOLUME   347206.113 3789546.998 441.40
   LOCATION L0185858     VOLUME   347187.999 3789568.263 436.38
   LOCATION L0185859     VOLUME   347175.127 3789591.616 437.37
   LOCATION L0185860     VOLUME   347173.659 3789619.511 441.41
   LOCATION L0185861     VOLUME   347175.446 3789646.692 441.13
   LOCATION L0185862     VOLUME   347188.456 3789671.412 432.61
   LOCATION L0185863     VOLUME   347201.466 3789696.131 429.65
   LOCATION L0185864     VOLUME   347227.392 3789700.218 428.85
   LOCATION L0185865     VOLUME   347255.311 3789701.119 424.21
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   LOCATION L0185867     VOLUME   347310.872 3789699.820 416.52
   LOCATION L0185868     VOLUME   347338.186 3789693.967 413.61
   LOCATION L0185869     VOLUME   347365.501 3789688.114 413.05
   LOCATION L0185870     VOLUME   347392.748 3789681.972 410.07
   LOCATION L0185871     VOLUME   347419.848 3789675.197 410.26
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   LOCATION L0185873     VOLUME   347470.190 3789652.786 402.08
   LOCATION L0185874     VOLUME   347493.611 3789637.563 401.59
   LOCATION L0185875     VOLUME   347517.389 3789622.923 397.99
   LOCATION L0185876     VOLUME   347542.744 3789621.721 395.17
   LOCATION L0185877     VOLUME   347569.027 3789631.182 395.69
   LOCATION L0185878     VOLUME   347595.309 3789640.644 388.37
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   LOCATION L0185880     VOLUME   347649.202 3789655.205 381.93
   LOCATION L0185881     VOLUME   347676.772 3789653.412 381.95
   LOCATION L0185882     VOLUME   347704.450 3789649.638 382.15
   LOCATION L0185883     VOLUME   347732.184 3789648.174 377.96
   LOCATION L0185884     VOLUME   347760.013 3789650.594 371.50
   LOCATION L0185885     VOLUME   347787.842 3789653.014 366.48
   LOCATION L0185886     VOLUME   347815.679 3789651.467 365.39
   LOCATION L0185887     VOLUME   347842.484 3789644.872 363.26
   LOCATION L0185888     VOLUME   347868.314 3789634.236 360.54
   LOCATION L0185889     VOLUME   347885.340 3789615.628 357.53
   LOCATION L0185890     VOLUME   347893.367 3789588.872 354.44
   LOCATION L0185891     VOLUME   347902.132 3789562.396 353.60
   LOCATION L0185892     VOLUME   347913.838 3789537.033 350.69
   LOCATION L0185893     VOLUME   347925.544 3789511.669 347.16
   LOCATION L0185894     VOLUME   347938.012 3789487.079 344.83
   LOCATION L0185895     VOLUME   347963.538 3789475.734 340.49
   LOCATION L0185896     VOLUME   347990.701 3789469.272 336.59
   LOCATION L0185897     VOLUME   348017.909 3789462.944 336.99
   LOCATION L0185898     VOLUME   348045.117 3789456.617 335.01
   LOCATION L0185899     VOLUME   348072.326 3789450.289 331.63
   LOCATION L0185900     VOLUME   348099.592 3789444.281 332.76
   LOCATION L0185901     VOLUME   348127.275 3789440.540 327.67
   LOCATION L0185902     VOLUME   348154.957 3789436.799 325.50
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   LOCATION L0185904     VOLUME   348210.289 3789429.616 326.56
   LOCATION L0185905     VOLUME   348236.444 3789439.425 325.29
   LOCATION L0185906     VOLUME   348262.430 3789446.002 322.96
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   LOCATION L0185908     VOLUME   348293.094 3789404.562 316.11
   LOCATION L0185909     VOLUME   348301.469 3789377.913 316.41
   LOCATION L0185910     VOLUME   348309.845 3789351.264 313.06
   LOCATION L0185911     VOLUME   348318.641 3789324.776 309.56
   LOCATION L0185912     VOLUME   348330.200 3789299.345 307.46
   LOCATION L0185913     VOLUME   348341.759 3789273.915 305.46
   LOCATION L0185914     VOLUME   348353.319 3789248.485 303.68
   LOCATION L0185915     VOLUME   348366.364 3789224.187 300.85
   LOCATION L0185916     VOLUME   348387.996 3789216.539 300.25
   LOCATION L0185917     VOLUME   348410.046 3789233.689 301.81
   LOCATION L0185918     VOLUME   348432.096 3789250.839 298.47
   LOCATION L0185919     VOLUME   348447.077 3789273.922 295.91
   LOCATION L0185920     VOLUME   348460.147 3789298.610 295.23
   LOCATION L0185921     VOLUME   348478.440 3789319.211 293.85
   LOCATION L0185922     VOLUME   348499.258 3789337.838 290.41
   LOCATION L0185923     VOLUME   348520.075 3789356.464 286.16
   LOCATION L0185924     VOLUME   348546.839 3789362.441 286.30
   LOCATION L0185925     VOLUME   348574.464 3789366.585 285.29
   LOCATION L0185926     VOLUME   348602.290 3789368.028 281.03
   LOCATION L0185927     VOLUME   348630.225 3789368.028 281.17
   LOCATION L0185928     VOLUME   348657.730 3789371.301 280.00
   LOCATION L0185929     VOLUME   348684.721 3789378.499 276.41
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   LOCATION ASBSR1       AREAPOLY   344930.487  3789254.345      589.590
** DESCRSRC Area Source 1 - Boeing Soil Remediaton Site 1
   LOCATION ASBSR2       AREAPOLY   344775.956  3788924.678      561.270
** DESCRSRC Area Source 2 - Boeing Soil Remediaton Site 2
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   LOCATION ASBSR3       AREAPOLY   344070.261  3789784.904      538.000
** DESCRSRC Area Source 3 - Boeing Soil Remediaton Site 3
   LOCATION ASBSR4       AREAPOLY   343112.165  3789738.545      566.290
** DESCRSRC Area Source 4 - Boeing Soil Remediation 4
   LOCATION ASBSR5       AREAPOLY   342504.340  3788976.188      543.070
** DESCRSRC Area Source 5 - Boeing Soil Remediaton Site 5
   LOCATION ASBBP1       AREAPOLY   344039.355  3788162.322      535.610
** DESCRSRC Area Soruce 6 - Boeing Borrow Pit 1
   LOCATION ASBBP2       AREAPOLY   343318.207  3788074.754      519.810
** DESCRSRC Area Source 7 - Boeing Borrow Pit 2
   LOCATION ASBBP3       AREAPOLY   342231.334  3788136.566      567.520
** DESCRSRC Area Source 8 - Boeing Borrow Pit Site 3
   LOCATION ASNSR1       AREAPOLY   344034.204  3789146.173      624.290
** DESCRSRC Area Soruce 9 - NASA Soil remedaition Site 1
   LOCATION ASNSR2       AREAPOLY   342669.174  3787951.128      517.090
** DESCRSRC Area Source 10 - NASA Soil Remediation Site 2
   LOCATION ASNSR3       AREAPOLY   344317.512  3789743.696      547.470
** DESCRSRC Area Source 11 - NASA Soil Remediation Stie 3
   LOCATION ASDSR1       AREAPOLY   342221.032  3788435.328      589.050
** DESCRSRC Area Source 12 - DOE Soil Remediation Site 1
   LOCATION ASDSR2       AREAPOLY   341195.972  3789213.137      492.910
** DESCRSRC Area Source 13 - DOE Soil Remediation Site 2
   LOCATION ASDSP1       AREAPOLY   342231.202  3789243.901      552.850
** DESCRSRC Area Source 14 - DOE Stock Pile 1
   LOCATION ASDSP2       AREAPOLY   342268.115  3789333.267      549.130
** DESCRSRC Area Source 15 - DOE Stock Pile 2
   LOCATION ASDSP3       AREAPOLY   342627.522  3789525.599      569.820
** DESCRSRC Area Source 16 - DOE Stock Pile 3
   LOCATION ASBSP1       AREAPOLY   344344.910  3788449.318      552.330
** DESCRSRC Area Source 17  - Boeing Stock Pile 1
   LOCATION ASBSP2       AREAPOLY   344646.035  3788490.115      547.430
** DESCRSRC Area Source 18 - Boeing Stock Pile 2
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBCV1
** DESCRSRC Onsite construction vehicles Boeing area 1
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 56
** 345912.212, 3789807.144, 578.34, 3.66, 10.09
** 345870.927, 3789917.788, 578.58, 3.66, 10.09
** 345819.733, 3789868.246, 577.12, 3.66, 10.09
** 345874.230, 3789782.373, 576.64, 3.35, 10.09
** 345824.688, 3789754.299, 575.53, 3.35, 10.09
** 345775.146, 3789825.310, 573.23, 3.35, 10.09
** 345735.512, 3789788.979, 570.49, 3.35, 10.09
** 345877.533, 3789572.645, 601.42, 3.35, 10.09
** 345816.431, 3789513.194, 590.96, 3.35, 10.09
** 345790.008, 3789557.782, 587.14, 3.35, 10.09
** 345854.413, 3789585.856, 594.60, 3.35, 10.09
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   LOCATION L0186186     VOLUME   345002.093 3789215.745 577.32
   LOCATION L0186187     VOLUME   344989.237 3789233.229 579.15
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   LOCATION L0186189     VOLUME   344963.094 3789266.624 586.81
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   LOCATION L0186191     VOLUME   344939.314 3789245.371 587.56
   LOCATION L0186192     VOLUME   344952.295 3789227.982 591.14
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   LOCATION L0186194     VOLUME   344978.257 3789193.202 589.72
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** End of LINE VOLUME Source ID = LSBCV1
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBCV2
** DESCRSRC Boeing Line Source Construction Vehicles
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
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LOCATION	L0186416	VOLUME	344674.432	3788755.657 546.12
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LOCATION	L0186429	VOLUME	344843.166	3788891.821 548.58
LOCATION	L0186430	VOLUME	344855.270	3788879.509 549.34
LOCATION	L0186431	VOLUME	344846.344	3788859.717 548.71
LOCATION	L0186432	VOLUME	344837.418	3788839.925 547.30
LOCATION	L0186433	VOLUME	344828.492	3788820.132 547.76
LOCATION	L0186434	VOLUME	344819.566	3788800.340 552.94
LOCATION	L0186435	VOLUME	344810.640	3788780.548 560.81
LOCATION	L0186436	VOLUME	344811.147	3788762.926 569.59
LOCATION	L0186437	VOLUME	344827.827	3788749.027 577.84
LOCATION	L0186438	VOLUME	344844.507	3788735.127 583.98
LOCATION	L0186439	VOLUME	344856.699	3788750.253 578.90
LOCATION	L0186440	VOLUME	344868.403	3788768.540 570.92
LOCATION	L0186441	VOLUME	344880.107	3788786.827 561.45
LOCATION	L0186442	VOLUME	344891.811	3788805.115 556.62
LOCATION	L0186443	VOLUME	344903.515	3788823.402 552.19
LOCATION	L0186444	VOLUME	344915.219	3788841.689 553.64
LOCATION	L0186445	VOLUME	344931.350	3788840.623 555.04
LOCATION	L0186446	VOLUME	344949.841	3788829.244 555.61
LOCATION	L0186447	VOLUME	344968.332	3788817.865 555.49
LOCATION	L0186448	VOLUME	344973.124	3788803.769 554.65
LOCATION	L0186449	VOLUME	344960.374	3788786.195 553.22
LOCATION	L0186450	VOLUME	344947.625	3788768.621 552.71
LOCATION	L0186451	VOLUME	344934.875	3788751.047 562.63
LOCATION	L0186452	VOLUME	344922.125	3788733.473 568.75
LOCATION	L0186453	VOLUME	344909.375	3788715.899 576.18
LOCATION	L0186454	VOLUME	344896.625	3788698.324 587.23
LOCATION	L0186455	VOLUME	344908.134	3788684.413 590.96
LOCATION	L0186456	VOLUME	344925.504	3788671.385 589.94
LOCATION	L0186457	VOLUME	344941.020	3788678.648 581.06

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   LOCATION L0186458     VOLUME   344955.741 3788694.607 576.21
   LOCATION L0186459     VOLUME   344970.462 3788710.566 572.16
   LOCATION L0186460     VOLUME   344985.183 3788726.525 561.73
   LOCATION L0186461     VOLUME   344999.904 3788742.484 555.56
   LOCATION L0186462     VOLUME   345014.625 3788758.443 556.98
   LOCATION L0186463     VOLUME   345029.346 3788774.403 557.82
** End of LINE VOLUME Source ID = LSBCV2
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBCV3
** DESCRSRC Boeing Line Source Construction Equipment 3
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 13
** 344069.544, 3789782.632, 540.64, 3.66, 10.02
** 344056.099, 3789634.734, 551.72, 3.66, 10.02
** 344099.124, 3789632.045, 547.48, 3.66, 10.02
** 344109.880, 3789814.901, 519.99, 3.35, 10.02
** 344152.905, 3789806.834, 522.95, 3.35, 10.02
** 344147.527, 3789626.666, 545.29, 3.35, 10.02
** 344190.552, 3789626.666, 551.26, 3.35, 10.02
** 344187.863, 3789777.254, 536.86, 3.35, 10.02
** 344222.821, 3789777.254, 533.54, 3.35, 10.02
** 344236.266, 3789629.355, 556.64, 3.35, 10.02
** 344265.846, 3789626.666, 555.28, 3.35, 10.02
** 344263.157, 3789796.078, 516.14, 3.35, 10.02
** 344303.493, 3789720.784, 551.25, 3.35, 10.02
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   LOCATION L0186464     VOLUME   344069.052 3789777.216 542.31
   LOCATION L0186465     VOLUME   344067.101 3789755.760 550.28
   LOCATION L0186466     VOLUME   344065.151 3789734.304 548.51
   LOCATION L0186467     VOLUME   344063.200 3789712.848 540.52
   LOCATION L0186468     VOLUME   344061.250 3789691.391 538.90
   LOCATION L0186469     VOLUME   344059.299 3789669.935 539.13
   LOCATION L0186470     VOLUME   344057.348 3789648.479 547.23
   LOCATION L0186471     VOLUME   344063.826 3789634.251 551.09
   LOCATION L0186472     VOLUME   344085.329 3789632.907 548.26
   LOCATION L0186473     VOLUME   344099.577 3789639.754 544.53
   LOCATION L0186474     VOLUME   344100.843 3789661.262 540.90
   LOCATION L0186475     VOLUME   344102.108 3789682.769 544.45
   LOCATION L0186476     VOLUME   344103.373 3789704.277 546.70
   LOCATION L0186477     VOLUME   344104.638 3789725.784 549.17
   LOCATION L0186478     VOLUME   344105.903 3789747.292 550.15
   LOCATION L0186479     VOLUME   344107.168 3789768.799 542.93
   LOCATION L0186480     VOLUME   344108.433 3789790.307 530.53
   LOCATION L0186481     VOLUME   344109.699 3789811.814 519.50
   LOCATION L0186482     VOLUME   344128.016 3789811.501 518.39
   LOCATION L0186483     VOLUME   344149.192 3789807.530 519.75
   LOCATION L0186484     VOLUME   344152.375 3789789.075 527.60
   LOCATION L0186485     VOLUME   344151.732 3789767.540 541.56
   LOCATION L0186486     VOLUME   344151.089 3789746.005 550.61
   LOCATION L0186487     VOLUME   344150.447 3789724.470 552.21
   LOCATION L0186488     VOLUME   344149.804 3789702.935 552.82
   LOCATION L0186489     VOLUME   344149.161 3789681.400 551.49
   LOCATION L0186490     VOLUME   344148.518 3789659.865 548.18
   LOCATION L0186491     VOLUME   344147.875 3789638.329 544.61
   LOCATION L0186492     VOLUME   344157.404 3789626.666 546.61
   LOCATION L0186493     VOLUME   344178.948 3789626.666 549.28
   LOCATION L0186494     VOLUME   344190.375 3789636.606 551.30
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   LOCATION L0186495     VOLUME   344189.990 3789658.147 551.63
   LOCATION L0186496     VOLUME   344189.605 3789679.688 551.17
   LOCATION L0186497     VOLUME   344189.221 3789701.229 550.74
   LOCATION L0186498     VOLUME   344188.836 3789722.771 552.39
   LOCATION L0186499     VOLUME   344188.451 3789744.312 551.36
   LOCATION L0186500     VOLUME   344188.067 3789765.853 543.89
   LOCATION L0186501     VOLUME   344198.005 3789777.254 537.69
   LOCATION L0186502     VOLUME   344219.550 3789777.254 535.29
   LOCATION L0186503     VOLUME   344224.475 3789759.056 540.52
   LOCATION L0186504     VOLUME   344226.426 3789737.600 542.62
   LOCATION L0186505     VOLUME   344228.377 3789716.144 540.87
   LOCATION L0186506     VOLUME   344230.327 3789694.687 543.26
   LOCATION L0186507     VOLUME   344232.278 3789673.231 549.01
   LOCATION L0186508     VOLUME   344234.228 3789651.775 551.84
   LOCATION L0186509     VOLUME   344236.179 3789630.319 555.79
   LOCATION L0186510     VOLUME   344256.759 3789627.492 555.47
   LOCATION L0186511     VOLUME   344265.649 3789639.085 552.64
   LOCATION L0186512     VOLUME   344265.307 3789660.627 549.57
   LOCATION L0186513     VOLUME   344264.965 3789682.169 548.52
   LOCATION L0186514     VOLUME   344264.623 3789703.711 547.62
   LOCATION L0186515     VOLUME   344264.281 3789725.253 541.83
   LOCATION L0186516     VOLUME   344263.939 3789746.795 534.70
   LOCATION L0186517     VOLUME   344263.597 3789768.337 526.20
   LOCATION L0186518     VOLUME   344263.255 3789789.879 518.38
   LOCATION L0186519     VOLUME   344270.403 3789782.551 522.03
   LOCATION L0186520     VOLUME   344280.577 3789763.560 533.00
   LOCATION L0186521     VOLUME   344290.751 3789744.569 542.63
   LOCATION L0186522     VOLUME   344300.925 3789725.578 551.02
** End of LINE VOLUME Source ID = LSBCV3
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBCV4
** DESCRSRC Boeing Line Source Construction Vehicles 4
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 16
** 343139.127, 3789744.985, 569.52, 3.66, 10.11
** 343128.371, 3789156.080, 536.38, 3.66, 10.11
** 343071.900, 3789148.012, 542.99, 3.66, 10.11
** 343074.589, 3789260.953, 552.35, 3.35, 10.11
** 343015.430, 3789228.684, 552.26, 3.35, 10.11
** 343042.320, 3789121.122, 543.11, 3.35, 10.11
** 343004.673, 3789035.072, 533.59, 3.35, 10.11
** 342980.472, 3789145.323, 543.89, 3.35, 10.11
** 342926.690, 3789053.895, 536.41, 3.35, 10.11
** 342975.094, 3788997.425, 531.11, 3.35, 10.11
** 342891.733, 3788970.534, 532.55, 3.35, 10.11
** 342875.598, 3789037.761, 537.24, 3.35, 10.11
** 342843.329, 3789018.937, 538.45, 3.35, 10.11
** 342824.506, 3788949.021, 534.30, 3.35, 10.11
** 342781.481, 3788949.021, 535.60, 3.35, 10.11
** 342802.993, 3789040.450, 542.55, 3.35, 10.11
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   LOCATION L0186523     VOLUME   343139.027 3789739.548 569.15
   LOCATION L0186524     VOLUME   343138.631 3789717.816 567.02
   LOCATION L0186525     VOLUME   343138.234 3789696.084 565.19
   LOCATION L0186526     VOLUME   343137.837 3789674.353 562.63
   LOCATION L0186527     VOLUME   343137.440 3789652.621 559.58
   LOCATION L0186528     VOLUME   343137.043 3789630.889 557.01
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   LOCATION L0186529     VOLUME   343136.646 3789609.157 556.03
   LOCATION L0186530     VOLUME   343136.249 3789587.426 555.79
   LOCATION L0186531     VOLUME   343135.852 3789565.694 556.84
   LOCATION L0186532     VOLUME   343135.455 3789543.962 557.14
   LOCATION L0186533     VOLUME   343135.058 3789522.230 557.02
   LOCATION L0186534     VOLUME   343134.661 3789500.498 556.00
   LOCATION L0186535     VOLUME   343134.264 3789478.767 554.58
   LOCATION L0186536     VOLUME   343133.867 3789457.035 553.35
   LOCATION L0186537     VOLUME   343133.470 3789435.303 552.55
   LOCATION L0186538     VOLUME   343133.074 3789413.571 551.84
   LOCATION L0186539     VOLUME   343132.677 3789391.840 551.26
   LOCATION L0186540     VOLUME   343132.280 3789370.108 550.94
   LOCATION L0186541     VOLUME   343131.883 3789348.376 551.68
   LOCATION L0186542     VOLUME   343131.486 3789326.644 554.96
   LOCATION L0186543     VOLUME   343131.089 3789304.913 553.27
   LOCATION L0186544     VOLUME   343130.692 3789283.181 542.70
   LOCATION L0186545     VOLUME   343130.295 3789261.449 537.91
   LOCATION L0186546     VOLUME   343129.898 3789239.717 537.46
   LOCATION L0186547     VOLUME   343129.501 3789217.985 537.17
   LOCATION L0186548     VOLUME   343129.104 3789196.254 536.60
   LOCATION L0186549     VOLUME   343128.707 3789174.522 536.81
   LOCATION L0186550     VOLUME   343125.114 3789155.614 536.40
   LOCATION L0186551     VOLUME   343103.597 3789152.540 539.75
   LOCATION L0186552     VOLUME   343082.080 3789149.467 543.14
   LOCATION L0186553     VOLUME   343072.173 3789159.462 544.87
   LOCATION L0186554     VOLUME   343072.690 3789181.191 546.97
   LOCATION L0186555     VOLUME   343073.207 3789202.920 549.50
   LOCATION L0186556     VOLUME   343073.725 3789224.649 550.66
   LOCATION L0186557     VOLUME   343074.242 3789246.378 551.57
   LOCATION L0186558     VOLUME   343068.306 3789257.526 553.01
   LOCATION L0186559     VOLUME   343049.225 3789247.118 553.91
   LOCATION L0186560     VOLUME   343030.144 3789236.710 553.66
   LOCATION L0186561     VOLUME   343016.636 3789223.858 552.32
   LOCATION L0186562     VOLUME   343021.908 3789202.772 550.57
   LOCATION L0186563     VOLUME   343027.179 3789181.685 548.96
   LOCATION L0186564     VOLUME   343032.451 3789160.599 546.94
   LOCATION L0186565     VOLUME   343037.723 3789139.512 544.95
   LOCATION L0186566     VOLUME   343041.207 3789118.576 543.22
   LOCATION L0186567     VOLUME   343032.495 3789098.663 541.83
   LOCATION L0186568     VOLUME   343023.783 3789078.750 537.75
   LOCATION L0186569     VOLUME   343015.071 3789058.837 534.43
   LOCATION L0186570     VOLUME   343006.359 3789038.924 533.50
   LOCATION L0186571     VOLUME   343000.915 3789052.194 535.75
   LOCATION L0186572     VOLUME   342996.254 3789073.424 541.29
   LOCATION L0186573     VOLUME   342991.594 3789094.654 541.80
   LOCATION L0186574     VOLUME   342986.934 3789115.884 541.14
   LOCATION L0186575     VOLUME   342982.274 3789137.114 543.14
   LOCATION L0186576     VOLUME   342973.713 3789133.833 542.68
   LOCATION L0186577     VOLUME   342962.693 3789115.099 540.83
   LOCATION L0186578     VOLUME   342951.672 3789096.364 539.51
   LOCATION L0186579     VOLUME   342940.652 3789077.630 538.40
   LOCATION L0186580     VOLUME   342929.632 3789058.895 537.13
   LOCATION L0186581     VOLUME   342937.060 3789041.797 535.85
   LOCATION L0186582     VOLUME   342951.206 3789025.294 534.80
   LOCATION L0186583     VOLUME   342965.351 3789008.791 533.23
   LOCATION L0186584     VOLUME   342968.656 3788995.348 531.15
   LOCATION L0186585     VOLUME   342947.970 3788988.675 531.12
   LOCATION L0186586     VOLUME   342927.284 3788982.002 531.21
   LOCATION L0186587     VOLUME   342906.599 3788975.329 531.73
   LOCATION L0186588     VOLUME   342890.305 3788976.480 533.46
   LOCATION L0186589     VOLUME   342885.233 3788997.615 534.75
   LOCATION L0186590     VOLUME   342880.161 3789018.751 536.09
   LOCATION L0186591     VOLUME   342873.710 3789036.659 537.82
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   LOCATION L0186592     VOLUME   342854.936 3789025.708 538.63
   LOCATION L0186593     VOLUME   342841.172 3789010.924 538.79
   LOCATION L0186594     VOLUME   342835.521 3788989.936 537.44
   LOCATION L0186595     VOLUME   342829.871 3788968.948 535.85
   LOCATION L0186596     VOLUME   342823.406 3788949.021 534.26
   LOCATION L0186597     VOLUME   342801.671 3788949.021 535.05
   LOCATION L0186598     VOLUME   342781.835 3788950.525 535.88
   LOCATION L0186599     VOLUME   342786.813 3788971.683 538.03
   LOCATION L0186600     VOLUME   342791.791 3788992.841 540.10
   LOCATION L0186601     VOLUME   342796.769 3789013.998 541.61
   LOCATION L0186602     VOLUME   342801.748 3789035.156 542.50
** End of LINE VOLUME Source ID = LSBCV4
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBCV5
** DESCRSRC Boeing Line SOurce Construciton Vehicles 5
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 18
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** 342364.675, 3788521.460, 547.05, 3.66, 10.10
** 342388.877, 3788575.241, 539.90, 3.66, 10.10
** 342230.222, 3788602.132, 567.02, 3.35, 10.10
** 342232.911, 3788672.047, 553.08, 3.35, 10.10
** 342405.011, 3788631.711, 538.27, 3.35, 10.10
** 342456.104, 3788661.291, 536.45, 3.35, 10.10
** 342230.222, 3788744.652, 549.60, 3.35, 10.10
** 342238.289, 3788819.946, 550.81, 3.35, 10.10
** 342499.129, 3788690.871, 536.26, 3.35, 10.10
** 342542.154, 3788728.518, 535.18, 3.35, 10.10
** 342281.314, 3788865.660, 548.80, 3.35, 10.10
** 342337.785, 3788895.240, 546.67, 3.35, 10.10
** 342571.734, 3788760.787, 530.89, 3.35, 10.10
** 342566.355, 3788836.081, 532.49, 3.35, 10.10
** 342477.616, 3788857.593, 537.52, 3.35, 10.10
** 342413.079, 3788892.551, 542.62, 3.35, 10.10
** 342499.129, 3788978.601, 543.22, 3.35, 10.10
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   LOCATION L0186604     VOLUME   342262.180 3788542.813 582.58
   LOCATION L0186605     VOLUME   342283.436 3788538.385 576.42
   LOCATION L0186606     VOLUME   342304.692 3788533.956 568.78
   LOCATION L0186607     VOLUME   342325.947 3788529.528 562.10
   LOCATION L0186608     VOLUME   342347.203 3788525.100 553.29
   LOCATION L0186609     VOLUME   342366.261 3788524.984 545.65
   LOCATION L0186610     VOLUME   342375.171 3788544.784 541.00
   LOCATION L0186611     VOLUME   342384.081 3788564.584 540.26
   LOCATION L0186612     VOLUME   342378.992 3788576.916 540.68
   LOCATION L0186613     VOLUME   342357.585 3788580.545 545.89
   LOCATION L0186614     VOLUME   342336.179 3788584.173 549.39
   LOCATION L0186615     VOLUME   342314.772 3788587.801 550.82
   LOCATION L0186616     VOLUME   342293.365 3788591.429 556.24
   LOCATION L0186617     VOLUME   342271.958 3788595.058 559.95
   LOCATION L0186618     VOLUME   342250.551 3788598.686 562.76
   LOCATION L0186619     VOLUME   342230.264 3788603.224 566.27
   LOCATION L0186620     VOLUME   342231.098 3788624.920 560.04
   LOCATION L0186621     VOLUME   342231.933 3788646.616 555.59
   LOCATION L0186622     VOLUME   342232.767 3788668.312 553.61
   LOCATION L0186623     VOLUME   342250.411 3788667.946 551.69
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   LOCATION L0186627     VOLUME   342334.969 3788648.128 543.16
   LOCATION L0186628     VOLUME   342356.108 3788643.173 541.58
   LOCATION L0186629     VOLUME   342377.247 3788638.219 540.47
   LOCATION L0186630     VOLUME   342398.387 3788633.264 539.02
   LOCATION L0186631     VOLUME   342417.913 3788639.181 537.69
   LOCATION L0186632     VOLUME   342436.703 3788650.059 536.96
   LOCATION L0186633     VOLUME   342455.494 3788660.938 536.45
   LOCATION L0186634     VOLUME   342436.396 3788668.564 537.15
   LOCATION L0186635     VOLUME   342416.026 3788676.082 537.91
   LOCATION L0186636     VOLUME   342395.657 3788683.599 538.50
   LOCATION L0186637     VOLUME   342375.288 3788691.116 539.25
   LOCATION L0186638     VOLUME   342354.918 3788698.633 540.09
   LOCATION L0186639     VOLUME   342334.549 3788706.151 541.34
   LOCATION L0186640     VOLUME   342314.180 3788713.668 542.97
   LOCATION L0186641     VOLUME   342293.810 3788721.185 544.99
   LOCATION L0186642     VOLUME   342273.441 3788728.702 546.80
   LOCATION L0186643     VOLUME   342253.072 3788736.220 547.98
   LOCATION L0186644     VOLUME   342232.702 3788743.737 549.56
   LOCATION L0186645     VOLUME   342232.253 3788763.612 549.74
   LOCATION L0186646     VOLUME   342234.566 3788785.201 549.97
   LOCATION L0186647     VOLUME   342236.879 3788806.789 550.29
   LOCATION L0186648     VOLUME   342245.890 3788816.185 549.92
   LOCATION L0186649     VOLUME   342265.349 3788806.555 548.46
   LOCATION L0186650     VOLUME   342284.809 3788796.926 547.00
   LOCATION L0186651     VOLUME   342304.269 3788787.296 545.53
   LOCATION L0186652     VOLUME   342323.729 3788777.666 544.05
   LOCATION L0186653     VOLUME   342343.189 3788768.037 542.57
   LOCATION L0186654     VOLUME   342362.649 3788758.407 541.23
   LOCATION L0186655     VOLUME   342382.109 3788748.778 539.86
   LOCATION L0186656     VOLUME   342401.569 3788739.148 538.28
   LOCATION L0186657     VOLUME   342421.029 3788729.518 536.67
   LOCATION L0186658     VOLUME   342440.489 3788719.889 535.41
   LOCATION L0186659     VOLUME   342459.949 3788710.259 534.81
   LOCATION L0186660     VOLUME   342479.409 3788700.629 535.16
   LOCATION L0186661     VOLUME   342498.869 3788691.000 536.58
   LOCATION L0186662     VOLUME   342515.250 3788704.977 536.69
   LOCATION L0186663     VOLUME   342531.590 3788719.275 535.83
   LOCATION L0186664     VOLUME   342535.360 3788732.090 534.08
   LOCATION L0186665     VOLUME   342516.142 3788742.194 532.80
   LOCATION L0186666     VOLUME   342496.924 3788752.298 532.81
   LOCATION L0186667     VOLUME   342477.706 3788762.403 533.48
   LOCATION L0186668     VOLUME   342458.488 3788772.507 534.68
   LOCATION L0186669     VOLUME   342439.271 3788782.611 536.50
   LOCATION L0186670     VOLUME   342420.053 3788792.715 538.59
   LOCATION L0186671     VOLUME   342400.835 3788802.819 540.18
   LOCATION L0186672     VOLUME   342381.617 3788812.924 541.74
   LOCATION L0186673     VOLUME   342362.399 3788823.028 543.14
   LOCATION L0186674     VOLUME   342343.182 3788833.132 544.49
   LOCATION L0186675     VOLUME   342323.964 3788843.236 545.85
   LOCATION L0186676     VOLUME   342304.746 3788853.340 547.28
   LOCATION L0186677     VOLUME   342285.528 3788863.445 548.61
   LOCATION L0186678     VOLUME   342296.330 3788873.526 548.17
   LOCATION L0186679     VOLUME   342315.563 3788883.600 547.36
   LOCATION L0186680     VOLUME   342334.797 3788893.675 546.70
   LOCATION L0186681     VOLUME   342353.685 3788886.102 545.57
   LOCATION L0186682     VOLUME   342372.510 3788875.283 544.24
   LOCATION L0186683     VOLUME   342391.335 3788864.464 542.97
   LOCATION L0186684     VOLUME   342410.159 3788853.645 541.67
   LOCATION L0186685     VOLUME   342428.984 3788842.827 540.00
   LOCATION L0186686     VOLUME   342447.809 3788832.008 538.29
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   LOCATION L0186687     VOLUME   342466.634 3788821.189 536.44
   LOCATION L0186688     VOLUME   342485.458 3788810.370 534.69
   LOCATION L0186689     VOLUME   342504.283 3788799.551 533.53
   LOCATION L0186690     VOLUME   342523.108 3788788.732 532.76
   LOCATION L0186691     VOLUME   342541.933 3788777.914 532.14
   LOCATION L0186692     VOLUME   342560.757 3788767.095 531.35
   LOCATION L0186693     VOLUME   342571.089 3788769.816 531.12
   LOCATION L0186694     VOLUME   342569.542 3788791.473 531.58
   LOCATION L0186695     VOLUME   342567.995 3788813.130 531.99
   LOCATION L0186696     VOLUME   342566.448 3788834.787 532.62
   LOCATION L0186697     VOLUME   342546.515 3788840.890 533.53
   LOCATION L0186698     VOLUME   342525.414 3788846.006 534.66
   LOCATION L0186699     VOLUME   342504.313 3788851.121 536.00
   LOCATION L0186700     VOLUME   342483.212 3788856.237 537.39
   LOCATION L0186701     VOLUME   342463.587 3788865.192 538.89
   LOCATION L0186702     VOLUME   342444.496 3788875.533 540.32
   LOCATION L0186703     VOLUME   342425.405 3788885.874 541.67
   LOCATION L0186704     VOLUME   342418.519 3788897.991 542.43
   LOCATION L0186705     VOLUME   342433.872 3788913.344 542.41
   LOCATION L0186706     VOLUME   342449.225 3788928.697 542.51
   LOCATION L0186707     VOLUME   342464.577 3788944.050 542.75
   LOCATION L0186708     VOLUME   342479.930 3788959.403 543.03
   LOCATION L0186709     VOLUME   342495.283 3788974.756 543.27
** End of LINE VOLUME Source ID = LSBCV5
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBBP1
** DESCRSRC Boeing Line Source - Borrow Pit 1
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 20
** 344327.695, 3788021.293, 531.82, 3.66, 10.09
** 344260.468, 3788104.654, 527.16, 3.66, 10.09
** 344203.998, 3788067.007, 522.92, 3.66, 10.09
** 344265.846, 3788013.226, 528.32, 3.35, 10.09
** 344201.308, 3787999.781, 526.53, 3.35, 10.09
** 344177.107, 3787908.352, 531.90, 3.35, 10.09
** 344064.166, 3787924.487, 522.86, 3.35, 10.09
** 344112.569, 3787967.512, 521.99, 3.35, 10.09
** 344160.972, 3787964.823, 524.88, 3.35, 10.09
** 344179.796, 3788026.671, 522.52, 3.35, 10.09
** 344026.519, 3788037.427, 531.82, 3.35, 10.09
** 344026.519, 3788163.814, 538.82, 3.35, 10.09
** 343996.939, 3788174.570, 547.15, 3.35, 10.09
** 344015.763, 3787932.554, 527.51, 3.35, 10.09
** 343956.603, 3787937.932, 528.52, 3.35, 10.09
** 343967.360, 3788179.948, 556.91, 3.35, 10.09
** 343927.024, 3788166.503, 574.84, 3.35, 10.09
** 343921.645, 3787945.999, 531.92, 3.35, 10.09
** 343875.931, 3787951.377, 535.11, 3.35, 10.09
** 343881.309, 3788018.604, 551.24, 3.35, 10.09
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   LOCATION L0186710     VOLUME   344324.281 3788025.526 531.54
   LOCATION L0186711     VOLUME   344310.661 3788042.415 528.43
   LOCATION L0186712     VOLUME   344297.040 3788059.304 527.68
   LOCATION L0186713     VOLUME   344283.420 3788076.193 528.77
   LOCATION L0186714     VOLUME   344269.800 3788093.082 528.14
   LOCATION L0186715     VOLUME   344254.785 3788100.865 526.51
   LOCATION L0186716     VOLUME   344236.732 3788088.830 524.36
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   LOCATION L0186717     VOLUME   344218.679 3788076.795 523.30
   LOCATION L0186718     VOLUME   344207.055 3788064.349 522.81
   LOCATION L0186719     VOLUME   344223.427 3788050.112 524.99
   LOCATION L0186720     VOLUME   344239.799 3788035.875 526.93
   LOCATION L0186721     VOLUME   344256.172 3788021.638 527.49
   LOCATION L0186722     VOLUME   344257.156 3788011.415 528.36
   LOCATION L0186723     VOLUME   344235.916 3788006.990 528.18
   LOCATION L0186724     VOLUME   344214.675 3788002.565 527.34
   LOCATION L0186725     VOLUME   344199.250 3787992.005 526.03
   LOCATION L0186726     VOLUME   344193.698 3787971.031 527.09
   LOCATION L0186727     VOLUME   344188.146 3787950.057 528.76
   LOCATION L0186728     VOLUME   344182.594 3787929.083 530.55
   LOCATION L0186729     VOLUME   344176.857 3787908.388 532.05
   LOCATION L0186730     VOLUME   344155.379 3787911.456 530.32
   LOCATION L0186731     VOLUME   344133.900 3787914.525 528.23
   LOCATION L0186732     VOLUME   344112.422 3787917.593 525.02
   LOCATION L0186733     VOLUME   344090.943 3787920.661 520.88
   LOCATION L0186734     VOLUME   344069.464 3787923.730 522.81
   LOCATION L0186735     VOLUME   344076.382 3787935.345 523.16
   LOCATION L0186736     VOLUME   344092.598 3787949.760 522.57
   LOCATION L0186737     VOLUME   344108.815 3787964.174 522.34
   LOCATION L0186738     VOLUME   344129.217 3787966.587 521.47
   LOCATION L0186739     VOLUME   344150.880 3787965.383 523.24
   LOCATION L0186740     VOLUME   344164.347 3787975.909 523.70
   LOCATION L0186741     VOLUME   344170.664 3787996.666 522.78
   LOCATION L0186742     VOLUME   344176.981 3788017.422 522.42
   LOCATION L0186743     VOLUME   344167.797 3788027.513 522.90
   LOCATION L0186744     VOLUME   344146.153 3788029.032 525.19
   LOCATION L0186745     VOLUME   344124.510 3788030.551 527.00
   LOCATION L0186746     VOLUME   344102.867 3788032.070 527.89
   LOCATION L0186747     VOLUME   344081.223 3788033.589 528.59
   LOCATION L0186748     VOLUME   344059.580 3788035.107 529.70
   LOCATION L0186749     VOLUME   344037.936 3788036.626 531.13
   LOCATION L0186750     VOLUME   344026.519 3788047.679 532.26
   LOCATION L0186751     VOLUME   344026.519 3788069.375 533.22
   LOCATION L0186752     VOLUME   344026.519 3788091.072 534.66
   LOCATION L0186753     VOLUME   344026.519 3788112.769 536.60
   LOCATION L0186754     VOLUME   344026.519 3788134.465 537.14
   LOCATION L0186755     VOLUME   344026.519 3788156.162 537.82
   LOCATION L0186756     VOLUME   344013.320 3788168.613 541.38
   LOCATION L0186757     VOLUME   343997.270 3788170.316 546.41
   LOCATION L0186758     VOLUME   343998.953 3788148.685 545.93
   LOCATION L0186759     VOLUME   344000.635 3788127.053 544.49
   LOCATION L0186760     VOLUME   344002.317 3788105.422 541.71
   LOCATION L0186761     VOLUME   344004.000 3788083.791 537.80
   LOCATION L0186762     VOLUME   344005.682 3788062.160 534.82
   LOCATION L0186763     VOLUME   344007.365 3788040.528 533.28
   LOCATION L0186764     VOLUME   344009.047 3788018.897 533.40
   LOCATION L0186765     VOLUME   344010.730 3787997.266 532.47
   LOCATION L0186766     VOLUME   344012.412 3787975.634 530.86
   LOCATION L0186767     VOLUME   344014.095 3787954.003 529.14
   LOCATION L0186768     VOLUME   344015.581 3787932.570 527.55
   LOCATION L0186769     VOLUME   343993.973 3787934.535 528.51
   LOCATION L0186770     VOLUME   343972.366 3787936.499 528.93
   LOCATION L0186771     VOLUME   343956.864 3787943.795 530.18
   LOCATION L0186772     VOLUME   343957.827 3787965.470 533.31
   LOCATION L0186773     VOLUME   343958.791 3787987.146 536.12
   LOCATION L0186774     VOLUME   343959.754 3788008.821 538.33
   LOCATION L0186775     VOLUME   343960.717 3788030.496 539.31
   LOCATION L0186776     VOLUME   343961.681 3788052.171 540.69
   LOCATION L0186777     VOLUME   343962.644 3788073.847 542.95
   LOCATION L0186778     VOLUME   343963.607 3788095.522 548.40
   LOCATION L0186779     VOLUME   343964.571 3788117.197 555.04
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   LOCATION L0186780     VOLUME   343965.534 3788138.872 557.41
   LOCATION L0186781     VOLUME   343966.497 3788160.547 556.99
   LOCATION L0186782     VOLUME   343965.200 3788179.228 556.73
   LOCATION L0186783     VOLUME   343944.616 3788172.367 566.72
   LOCATION L0186784     VOLUME   343926.947 3788163.351 575.18
   LOCATION L0186785     VOLUME   343926.418 3788141.661 573.00
   LOCATION L0186786     VOLUME   343925.889 3788119.971 569.46
   LOCATION L0186787     VOLUME   343925.360 3788098.281 561.60
   LOCATION L0186788     VOLUME   343924.831 3788076.591 557.02
   LOCATION L0186789     VOLUME   343924.302 3788054.901 549.84
   LOCATION L0186790     VOLUME   343923.773 3788033.210 546.37
   LOCATION L0186791     VOLUME   343923.244 3788011.520 544.07
   LOCATION L0186792     VOLUME   343922.714 3787989.830 540.39
   LOCATION L0186793     VOLUME   343922.185 3787968.140 536.11
   LOCATION L0186794     VOLUME   343921.656 3787946.450 532.31
   LOCATION L0186795     VOLUME   343900.545 3787948.482 533.27
   LOCATION L0186796     VOLUME   343878.997 3787951.017 534.32
   LOCATION L0186797     VOLUME   343877.415 3787969.928 537.79
   LOCATION L0186798     VOLUME   343879.146 3787991.555 542.79
   LOCATION L0186799     VOLUME   343880.876 3788013.183 549.73
** End of LINE VOLUME Source ID = LSBBP1
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBBP2
** DESCRSRC Boeing Line Source Borrow Pit 2
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 4
** 343321.983, 3788096.587, 521.77, 3.66, 9.87
** 343483.327, 3788067.007, 525.02, 3.66, 9.87
** 343469.882, 3788026.671, 523.87, 3.66, 9.87
** 343308.538, 3788061.629, 518.92, 3.35, 9.87
** ----------------------------------------------------------------------
   LOCATION L0186800     VOLUME   343327.333 3788095.606 521.57
   LOCATION L0186801     VOLUME   343348.206 3788091.779 521.29
   LOCATION L0186802     VOLUME   343369.079 3788087.953 520.27
   LOCATION L0186803     VOLUME   343389.953 3788084.126 518.73
   LOCATION L0186804     VOLUME   343410.826 3788080.299 517.51
   LOCATION L0186805     VOLUME   343431.700 3788076.472 517.98
   LOCATION L0186806     VOLUME   343452.573 3788072.646 520.67
   LOCATION L0186807     VOLUME   343473.446 3788068.819 525.07
   LOCATION L0186808     VOLUME   343479.793 3788056.405 523.73
   LOCATION L0186809     VOLUME   343473.083 3788036.273 523.16
   LOCATION L0186810     VOLUME   343459.034 3788029.022 522.81
   LOCATION L0186811     VOLUME   343438.293 3788033.515 521.12
   LOCATION L0186812     VOLUME   343417.553 3788038.009 518.92
   LOCATION L0186813     VOLUME   343396.813 3788042.503 517.61
   LOCATION L0186814     VOLUME   343376.073 3788046.996 518.12
   LOCATION L0186815     VOLUME   343355.333 3788051.490 519.46
   LOCATION L0186816     VOLUME   343334.593 3788055.984 519.68
   LOCATION L0186817     VOLUME   343313.853 3788060.477 518.67
** End of LINE VOLUME Source ID = LSBBP2
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** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = LSBBP3
** DESCRSRC Boeing Line Source Borrow Pit 3
** PREFIX
** Length of Side = 10.88
** Configuration = Separated
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** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 6
** 342415.768, 3787943.310, 541.58, 3.66, 9.89
** 342337.785, 3788126.167, 567.50, 3.66, 9.89
** 342275.936, 3788161.125, 579.65, 3.66, 9.89
** 342343.163, 3787978.268, 558.81, 3.35, 9.89
** 342262.491, 3788026.671, 570.23, 3.35, 9.89
** 342232.911, 3788134.234, 566.94, 3.35, 9.89
** ----------------------------------------------------------------------
   LOCATION L0186818     VOLUME   342413.634 3787948.313 541.60
   LOCATION L0186819     VOLUME   342405.290 3787967.879 543.43
   LOCATION L0186820     VOLUME   342396.945 3787987.445 544.83
   LOCATION L0186821     VOLUME   342388.601 3788007.012 546.38
   LOCATION L0186822     VOLUME   342380.256 3788026.578 546.96
   LOCATION L0186823     VOLUME   342371.912 3788046.145 549.17
   LOCATION L0186824     VOLUME   342363.567 3788065.711 552.89
   LOCATION L0186825     VOLUME   342355.223 3788085.278 557.71
   LOCATION L0186826     VOLUME   342346.878 3788104.844 562.71
   LOCATION L0186827     VOLUME   342338.534 3788124.411 567.04
   LOCATION L0186828     VOLUME   342320.929 3788135.694 571.06
   LOCATION L0186829     VOLUME   342302.410 3788146.161 574.70
   LOCATION L0186830     VOLUME   342283.892 3788156.628 578.76
   LOCATION L0186831     VOLUME   342280.123 3788149.737 576.78
   LOCATION L0186832     VOLUME   342287.463 3788129.772 570.70
   LOCATION L0186833     VOLUME   342294.803 3788109.807 563.78
   LOCATION L0186834     VOLUME   342302.143 3788089.842 556.90
   LOCATION L0186835     VOLUME   342309.483 3788069.877 556.29
   LOCATION L0186836     VOLUME   342316.823 3788049.913 555.90
   LOCATION L0186837     VOLUME   342324.163 3788029.948 553.13
   LOCATION L0186838     VOLUME   342331.503 3788009.983 553.92
   LOCATION L0186839     VOLUME   342338.843 3787990.018 559.11
   LOCATION L0186840     VOLUME   342335.657 3787982.771 560.97
   LOCATION L0186841     VOLUME   342317.417 3787993.715 562.70
   LOCATION L0186842     VOLUME   342299.177 3788004.660 562.74
   LOCATION L0186843     VOLUME   342280.937 3788015.604 564.72
   LOCATION L0186844     VOLUME   342262.697 3788026.548 571.34
   LOCATION L0186845     VOLUME   342256.914 3788046.950 579.08
   LOCATION L0186846     VOLUME   342251.274 3788067.460 579.88
   LOCATION L0186847     VOLUME   342245.634 3788087.970 576.69
   LOCATION L0186848     VOLUME   342239.993 3788108.480 571.22
   LOCATION L0186849     VOLUME   342234.353 3788128.990 566.47
** End of LINE VOLUME Source ID = LSBBP3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = LSNVC1
** DESCRSRC Line Source - NASA Soil Remediation Site 1
** PREFIX
** Length of Side = 10.88
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 114
** 343066.311, 3790041.887, 454.41, 3.66, 5.06
** 343027.453, 3789977.772, 491.81, 3.66, 5.06
** 343140.141, 3789828.168, 556.44, 3.66, 5.06
** 343182.885, 3789839.826, 550.94, 0.00, 5.06
** 343258.658, 3789818.454, 551.33, 0.00, 5.06
** 343177.056, 3789750.453, 571.45, 0.00, 5.06
** 343167.341, 3789171.469, 538.80, 0.00, 5.06
** 343202.314, 3789161.755, 539.62, 0.00, 5.06
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** 343202.314, 3789746.567, 570.73, 0.00, 5.06
** 343237.286, 3789758.224, 567.67, 0.00, 5.06
** 343231.457, 3789153.983, 543.27, 0.00, 5.06
** 343283.915, 3789144.269, 555.94, 0.00, 5.06
** 343274.201, 3789777.653, 565.52, 0.00, 5.06
** 343305.287, 3789795.139, 564.78, 0.00, 5.06
** 343320.830, 3789783.482, 567.96, 0.00, 5.06
** 343318.887, 3789142.326, 554.08, 0.00, 5.06
** 343377.174, 3789051.010, 577.24, 0.00, 5.06
** 343379.117, 3789802.911, 565.80, 0.00, 5.06
** 343414.089, 3789802.911, 567.04, 0.00, 5.06
** 343427.690, 3789812.625, 565.36, 0.00, 5.06
** 343423.804, 3789021.866, 592.11, 0.00, 5.06
** 343466.548, 3789004.380, 610.62, 0.00, 5.06
** 343493.748, 3789818.454, 567.22, 0.00, 5.06
** 343530.663, 3789818.454, 565.06, 0.00, 5.06
** 343520.949, 3789002.437, 600.84, 0.00, 5.06
** 343682.209, 3789002.437, 586.72, 0.00, 5.06
** 343693.867, 3789047.124, 574.27, 0.00, 5.06
** 343544.263, 3789047.124, 581.67, 0.00, 5.06
** 343546.206, 3789097.639, 570.11, 0.00, 5.06
** 343707.467, 3789093.753, 565.44, 0.00, 5.06
** 343721.067, 3789132.611, 557.46, 0.00, 5.06
** 343553.978, 3789136.497, 565.14, 0.00, 5.06
** 343555.921, 3789177.298, 568.69, 0.00, 5.06
** 343715.238, 3789181.184, 559.06, 0.00, 5.06
** 343697.752, 3789216.156, 563.99, 0.00, 5.06
** 343553.978, 3789212.270, 569.03, 0.00, 5.06
** 343557.864, 3789245.299, 559.24, 0.00, 5.06
** 343886.213, 3789272.500, 573.59, 0.00, 5.06
** 344028.045, 3789163.698, 617.65, 0.00, 5.06
** 344033.874, 3789441.532, 592.33, 0.00, 5.06
** 344008.616, 3789453.189, 589.44, 0.00, 5.06
** 343995.016, 3789227.813, 586.09, 0.00, 5.06
** 343950.329, 3789256.957, 585.71, 0.00, 5.06
** 343961.986, 3789435.703, 589.84, 0.00, 5.06
** 343927.014, 3789416.274, 589.58, 0.00, 5.06
** 343913.414, 3789282.214, 573.67, 0.00, 5.06
** 343855.127, 3789293.872, 562.78, 0.00, 5.06
** 343878.442, 3789402.674, 583.57, 0.00, 5.06
** 343833.755, 3789408.503, 580.33, 0.00, 5.06
** 343820.155, 3789295.815, 564.16, 0.00, 5.06
** 343775.468, 3789291.929, 569.66, 0.00, 5.06
** 343787.126, 3789429.875, 575.98, 0.00, 5.06
** 343738.553, 3789391.017, 566.39, 0.00, 5.06
** 343738.553, 3789288.043, 562.62, 0.00, 5.06
** 343695.809, 3789286.100, 562.43, 0.00, 5.06
** 343691.924, 3789375.473, 562.59, 0.00, 5.06
** 343656.952, 3789394.902, 562.94, 0.00, 5.06
** 343656.952, 3789288.043, 563.35, 0.00, 5.06
** 343608.379, 3789284.157, 557.02, 0.00, 5.06
** 343612.265, 3789387.131, 556.94, 0.00, 5.06
** 343579.236, 3789363.816, 557.35, 0.00, 5.06
** 343573.407, 3789282.214, 554.17, 0.00, 5.06
** 343553.978, 3789286.100, 554.34, 0.00, 5.06
** 343565.635, 3789841.769, 559.57, 0.00, 5.06
** 343600.607, 3789841.769, 555.11, 0.00, 5.06
** 343596.722, 3789505.648, 545.27, 0.00, 5.06
** 343647.237, 3789538.677, 541.32, 0.00, 5.06
** 343627.808, 3789835.940, 553.20, 0.00, 5.06
** 343662.780, 3789849.540, 547.91, 0.00, 5.06
** 343678.323, 3789565.877, 539.06, 0.00, 5.06
** 343701.638, 3789579.478, 538.70, 0.00, 5.06
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** 343711.353, 3789855.369, 555.01, 0.00, 5.06
** 343742.439, 3789859.255, 555.74, 0.00, 5.06
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** Configuration = Adjacent
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** DESCRSRC Onsite Haul Route Line source
** PREFIX
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** Configuration = Adjacent
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   LOCATION L0193249     VOLUME   341982.089 3788925.766 562.33
   LOCATION L0193250     VOLUME   341964.228 3788923.534 562.82
   LOCATION L0193251     VOLUME   341946.367 3788921.301 563.19
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   LOCATION L0193252     VOLUME   341932.552 3788910.796 563.73
   LOCATION L0193253     VOLUME   341919.824 3788898.069 564.28
   LOCATION L0193254     VOLUME   341905.208 3788888.939 565.06
   LOCATION L0193255     VOLUME   341887.503 3788885.693 565.92
   LOCATION L0193256     VOLUME   341869.798 3788882.447 566.78
   LOCATION L0193257     VOLUME   341852.093 3788879.201 567.55
   LOCATION L0193258     VOLUME   341834.388 3788875.955 568.20
   LOCATION L0193259     VOLUME   341816.683 3788872.709 568.75
   LOCATION L0193260     VOLUME   341798.978 3788869.463 569.23
   LOCATION L0193261     VOLUME   341781.273 3788866.218 569.58
   LOCATION L0193262     VOLUME   341763.568 3788862.972 570.07
   LOCATION L0193263     VOLUME   341745.863 3788859.726 570.65
   LOCATION L0193264     VOLUME   341728.158 3788856.480 571.27
   LOCATION L0193265     VOLUME   341710.453 3788853.234 571.92
   LOCATION L0193266     VOLUME   341692.749 3788849.988 573.05
   LOCATION L0193267     VOLUME   341675.044 3788846.742 574.65
   LOCATION L0193268     VOLUME   341657.339 3788843.496 576.49
** End of LINE VOLUME Source ID = LSOHR3
   LOCATION SVEB1        POINT      345850.190  3789794.540      573.820
** DESCRSRC SVE1 Boeing
   LOCATION SVEB2        POINT      345753.397  3789653.073      581.010
** DESCRSRC SVE 2 Boeing
   LOCATION SVEB3        POINT      345600.762  3789429.705      584.990
** DESCRSRC SVE 3 Boeing
   LOCATION SVEB4        POINT      345422.067  3789102.098      588.060
** DESCRSRC SVE 4 Boeing
   LOCATION SVEB5        POINT      344770.576  3788357.536      542.180
** DESCRSRC SVE 5 Boeing
   LOCATION SVEB6        POINT      342391.701  3788677.697      538.800
** DESCRSRC SVE 6 Boeing
   LOCATION SVEN1        POINT      343743.080  3789265.901      553.850
** DESCRSRC SVE 1 NASA
   LOCATION SVEN2        POINT      343556.940  3789217.505      567.990
** DESCRSRC SVE 2 NASA
   LOCATION SVEN3        POINT      343556.940  3789016.473      598.550
** DESCRSRC SVE 3 NASA
   LOCATION SVEN4        POINT      343415.473  3789035.087      588.200
** DESCRSRC SVE 4 NASA
   LOCATION SVEN5        POINT      343087.866  3788625.578      536.720
** DESCRSRC SVE 5 NASA
   LOCATION SVEN6        POINT      342905.449  3788517.617      540.340
** DESCRSRC SVE 6 NASA
   LOCATION SVEN7        POINT      342603.901  3788335.199      522.050
** DESCRSRC SVE 7 NASA
   LOCATION SVED1        POINT      341602.466  3788908.512      567.750
** DESCRSRC SVE 1 DOE
** Source Parameters **
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0185154     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185155     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185156     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185157     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185158     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185159     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185160     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185161     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185162     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185163     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185164     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185165     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185166     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185167     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185168     0.0277777778      3.66     17.89      3.40
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   SRCPARAM L0185169     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185170     0.0277777778      3.66     17.89      3.40
   SRCPARAM L0185171     0.0277777778      3.67     17.89      3.40
   SRCPARAM L0185172     0.0277777778      3.68     17.89      3.40
   SRCPARAM L0185173     0.0277777778      3.69     17.89      3.40
   SRCPARAM L0185174     0.0277777778      3.70     17.89      3.40
   SRCPARAM L0185175     0.0277777778      3.71     17.89      3.40
   SRCPARAM L0185176     0.0277777778      3.72     17.89      3.40
   SRCPARAM L0185177     0.0277777778      3.73     17.89      3.40
   SRCPARAM L0185178     0.0277777778      3.74     17.89      3.40
   SRCPARAM L0185179     0.0277777778      3.75     17.89      3.40
   SRCPARAM L0185180     0.0277777778      3.76     17.89      3.40
   SRCPARAM L0185181     0.0277777778      3.76     17.89      3.40
   SRCPARAM L0185182     0.0277777778      3.77     17.89      3.40
   SRCPARAM L0185183     0.0277777778      3.78     17.89      3.40
   SRCPARAM L0185184     0.0277777778      3.79     17.89      3.40
   SRCPARAM L0185185     0.0277777778      3.80     17.89      3.40
   SRCPARAM L0185186     0.0277777778      3.81     17.89      3.40
   SRCPARAM L0185187     0.0277777778      3.82     17.89      3.40
   SRCPARAM L0185188     0.0277777778      3.83     17.89      3.40
   SRCPARAM L0185189     0.0277777778      3.84     17.89      3.40
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   SRCPARAM L0185190     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185191     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185192     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185193     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185194     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185195     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185196     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185197     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185198     0.0188679245      3.66     34.58      3.40
   SRCPARAM L0185199     0.0188679245      3.71     34.58      3.40
   SRCPARAM L0185200     0.0188679245      3.76     34.58      3.40
   SRCPARAM L0185201     0.0188679245      3.81     34.58      3.40
   SRCPARAM L0185202     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185203     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185204     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185205     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185206     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185207     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185208     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185209     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185210     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185211     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185212     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185213     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185214     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185215     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185216     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185217     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185218     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185219     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185220     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185221     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185222     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185223     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185224     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185225     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185226     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185227     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185228     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185229     0.0188679245      3.84     34.58      3.40
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   SRCPARAM L0185230     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185231     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185232     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185233     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185234     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185235     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185236     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185237     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185238     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185239     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185240     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185241     0.0188679245      3.84     34.58      3.40
   SRCPARAM L0185242     0.0188679245      3.84     34.58      3.40
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   SRCPARAM L0185244     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185245     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185246     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185247     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185248     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185249     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185250     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185251     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185252     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185253     0.0142857143      3.66     11.86      3.40
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   SRCPARAM L0185255     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185256     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185257     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185258     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185259     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185260     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185261     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185262     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185263     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185264     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185265     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185266     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185267     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185268     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185269     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185270     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185271     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185272     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185273     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185274     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185275     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185276     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185277     0.0142857143      3.66     11.86      3.40
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   SRCPARAM L0185286     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185287     0.0142857143      3.66     11.86      3.40
   SRCPARAM L0185288     0.0142857143      3.67     11.86      3.40
   SRCPARAM L0185289     0.0142857143      3.69     11.86      3.40
   SRCPARAM L0185290     0.0142857143      3.70     11.86      3.40
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   SRCPARAM L0185291     0.0142857143      3.72     11.86      3.40
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   SRCPARAM L0185294     0.0142857143      3.77     11.86      3.40
   SRCPARAM L0185295     0.0142857143      3.78     11.86      3.40
   SRCPARAM L0185296     0.0142857143      3.80     11.86      3.40
   SRCPARAM L0185297     0.0142857143      3.82     11.86      3.40
   SRCPARAM L0185298     0.0142857143      3.83     11.86      3.40
   SRCPARAM L0185299     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185300     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185301     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185302     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185303     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185304     0.0142857143      3.84     11.86      3.40
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   SRCPARAM L0185309     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185310     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185311     0.0142857143      3.84     11.86      3.40
   SRCPARAM L0185312     0.0142857143      3.84     11.86      3.40
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   SRCPARAM L0185314     0.0135135135      3.66     23.53      3.40
   SRCPARAM L0185315     0.0135135135      3.66     23.53      3.40
   SRCPARAM L0185316     0.0135135135      3.66     23.53      3.40
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   SRCPARAM L0185318     0.0135135135      3.66     23.53      3.40
   SRCPARAM L0185319     0.0135135135      3.66     23.53      3.40
   SRCPARAM L0185320     0.0135135135      3.66     23.53      3.40
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   SRCPARAM L0185322     0.0135135135      3.66     23.53      3.40
   SRCPARAM L0185323     0.0135135135      3.66     23.53      3.40
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   SRCPARAM L0185352     0.0135135135      3.66     23.53      3.40
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   SRCPARAM L0185364     0.0135135135      3.71     23.53      3.40
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   SRCPARAM L0185369     0.0135135135      3.74     23.53      3.40
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   SRCPARAM L0185374     0.0135135135      3.77     23.53      3.40
   SRCPARAM L0185375     0.0135135135      3.77     23.53      3.40
   SRCPARAM L0185376     0.0135135135      3.78     23.53      3.40
   SRCPARAM L0185377     0.0135135135      3.79     23.53      3.40
   SRCPARAM L0185378     0.0135135135      3.79     23.53      3.40
   SRCPARAM L0185379     0.0135135135      3.80     23.53      3.40
   SRCPARAM L0185380     0.0135135135      3.80     23.53      3.40
   SRCPARAM L0185381     0.0135135135      3.81     23.53      3.40
   SRCPARAM L0185382     0.0135135135      3.82     23.53      3.40
   SRCPARAM L0185383     0.0135135135      3.82     23.53      3.40
   SRCPARAM L0185384     0.0135135135      3.83     23.53      3.40
   SRCPARAM L0185385     0.0135135135      3.83     23.53      3.40
   SRCPARAM L0185386     0.0135135135      3.84     23.53      3.40
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** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0185387     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185388     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185389     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185390     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185391     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185392     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185393     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185394     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185395     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185396     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185397     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185398     0.0222222222      3.66     27.84      3.40
   SRCPARAM L0185399     0.0222222222      3.68     27.84      3.40
   SRCPARAM L0185400     0.0222222222      3.74     27.84      3.40
   SRCPARAM L0185401     0.0222222222      3.80     27.84      3.40
   SRCPARAM L0185402     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185403     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185404     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185405     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185406     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185407     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185408     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185409     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185410     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185411     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185412     0.0222222222      3.84     27.84      3.40
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   SRCPARAM L0185413     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185414     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185415     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185416     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185417     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185418     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185419     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185420     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185421     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185422     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185423     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185424     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185425     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185426     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185427     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185428     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185429     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185430     0.0222222222      3.84     27.84      3.40
   SRCPARAM L0185431     0.0222222222      3.84     27.84      3.40
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** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0185432     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185433     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185434     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185435     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185436     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185437     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185438     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185439     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185440     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185441     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185442     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185443     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185444     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185445     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185446     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185447     0.010989011      3.66     27.73      3.40
   SRCPARAM L0185448     0.010989011      3.70     27.73      3.40
   SRCPARAM L0185449     0.010989011      3.74     27.73      3.40
   SRCPARAM L0185450     0.010989011      3.78     27.73      3.40
   SRCPARAM L0185451     0.010989011      3.82     27.73      3.40
   SRCPARAM L0185452     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185453     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185454     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185455     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185456     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185457     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185458     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185459     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185460     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185461     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185462     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185463     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185464     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185465     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185466     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185467     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185468     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185469     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185470     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185471     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185472     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185473     0.010989011      3.84     27.73      3.40
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   SRCPARAM L0185474     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185475     0.010989011      3.84     27.73      3.40
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   SRCPARAM L0185477     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185478     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185479     0.010989011      3.84     27.73      3.40
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   SRCPARAM L0185500     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185501     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185502     0.010989011      3.84     27.73      3.40
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   SRCPARAM L0185512     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185513     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185514     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185515     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185516     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185517     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185518     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185519     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185520     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185521     0.010989011      3.84     27.73      3.40
   SRCPARAM L0185522     0.010989011      3.84     27.73      3.40
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** LINE VOLUME Source ID = SLINE10
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   SRCPARAM L0185524     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185525     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185526     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185527     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185528     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185529     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185530     0.0059171598      3.66     21.52      3.40
   SRCPARAM L0185531     0.0059171598      3.67     21.52      3.40
   SRCPARAM L0185532     0.0059171598      3.76     21.52      3.40
   SRCPARAM L0185533     0.0059171598      3.84     21.52      3.40
   SRCPARAM L0185534     0.0059171598      3.84     21.52      3.40
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SRCPARAM L0185535     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185536     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185537     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185538     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185539     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185540     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185541     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185542     0.0059171598      3.84     21.52      3.40
SRCPARAM L0185543     0.0059171598      3.84     21.52      3.40
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** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0185692     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185693     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185694     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185695     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185696     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185697     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185698     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185699     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185700     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185701     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185702     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185703     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185704     0.0714285714      3.66     12.17      3.40
   SRCPARAM L0185705     0.0714285714      3.66     12.17      3.40
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** LINE VOLUME Source ID = SLINE13
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   SRCPARAM L0185707     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185708     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185709     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185710     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185711     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185712     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185713     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185714     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185715     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185716     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185717     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185718     0.0243902439      3.66     11.78      3.40
   SRCPARAM L0185719     0.0243902439      3.68     11.78      3.40
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   SRCPARAM L0185720     0.0243902439      3.70     11.78      3.40
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   SRCPARAM L0185723     0.0243902439      3.77     11.78      3.40
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   SRCPARAM L0185737     0.0243902439      3.84     11.78      3.40
   SRCPARAM L0185738     0.0243902439      3.84     11.78      3.40
   SRCPARAM L0185739     0.0243902439      3.84     11.78      3.40
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   SRCPARAM L0185741     0.0243902439      3.84     11.78      3.40
   SRCPARAM L0185742     0.0243902439      3.84     11.78      3.40
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   SRCPARAM L0185746     0.0243902439      3.84     11.78      3.40
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   SRCPARAM L0185750     0.0238095238      3.66     12.45      3.40
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   SRCPARAM L0185752     0.0238095238      3.68     12.45      3.40
   SRCPARAM L0185753     0.0238095238      3.71     12.45      3.40
   SRCPARAM L0185754     0.0238095238      3.74     12.45      3.40
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   SRCPARAM L0185757     0.0238095238      3.83     12.45      3.40
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   SRCPARAM L0185761     0.0238095238      3.84     12.45      3.40
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   SRCPARAM L0185790     0.0070921986      3.66     12.99      3.40
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   SRCPARAM L0185795     0.0070921986      3.66     12.99      3.40
   SRCPARAM L0185796     0.0070921986      3.66     12.99      3.40
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   SRCPARAM L0185799     0.0070921986      3.68     12.99      3.40
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   SRCPARAM L0186478     0.0169491525      3.47     10.02      3.40
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   SRCPARAM L0186495     0.0169491525      3.35     10.02      3.40
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   SRCPARAM L0186497     0.0169491525      3.35     10.02      3.40
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   SRCPARAM L0186520     0.0169491525      3.35     10.02      3.40
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   SRCPARAM L0186528        0.0125      3.66     10.11      3.40
   SRCPARAM L0186529        0.0125      3.66     10.11      3.40
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   SRCPARAM L0186531        0.0125      3.66     10.11      3.40
   SRCPARAM L0186532        0.0125      3.66     10.11      3.40
   SRCPARAM L0186533        0.0125      3.66     10.11      3.40
   SRCPARAM L0186534        0.0125      3.66     10.11      3.40
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   SRCPARAM L0186538        0.0125      3.66     10.11      3.40
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   SRCPARAM L0186544        0.0125      3.66     10.11      3.40
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   SRCPARAM L0186546        0.0125      3.66     10.11      3.40
   SRCPARAM L0186547        0.0125      3.66     10.11      3.40
   SRCPARAM L0186548        0.0125      3.66     10.11      3.40
   SRCPARAM L0186549        0.0125      3.66     10.11      3.40
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   SRCPARAM L0186551        0.0125      3.66     10.11      3.40
   SRCPARAM L0186552        0.0125      3.66     10.11      3.40
   SRCPARAM L0186553        0.0125      3.63     10.11      3.40
   SRCPARAM L0186554        0.0125      3.57     10.11      3.40
   SRCPARAM L0186555        0.0125      3.51     10.11      3.40
   SRCPARAM L0186556        0.0125      3.45     10.11      3.40
   SRCPARAM L0186557        0.0125      3.39     10.11      3.40
   SRCPARAM L0186558        0.0125      3.35     10.11      3.40
   SRCPARAM L0186559        0.0125      3.35     10.11      3.40
   SRCPARAM L0186560        0.0125      3.35     10.11      3.40
   SRCPARAM L0186561        0.0125      3.35     10.11      3.40
   SRCPARAM L0186562        0.0125      3.35     10.11      3.40
   SRCPARAM L0186563        0.0125      3.35     10.11      3.40
   SRCPARAM L0186564        0.0125      3.35     10.11      3.40
   SRCPARAM L0186565        0.0125      3.35     10.11      3.40
   SRCPARAM L0186566        0.0125      3.35     10.11      3.40
   SRCPARAM L0186567        0.0125      3.35     10.11      3.40
   SRCPARAM L0186568        0.0125      3.35     10.11      3.40
   SRCPARAM L0186569        0.0125      3.35     10.11      3.40
   SRCPARAM L0186570        0.0125      3.35     10.11      3.40
   SRCPARAM L0186571        0.0125      3.35     10.11      3.40
   SRCPARAM L0186572        0.0125      3.35     10.11      3.40
   SRCPARAM L0186573        0.0125      3.35     10.11      3.40
   SRCPARAM L0186574        0.0125      3.35     10.11      3.40
   SRCPARAM L0186575        0.0125      3.35     10.11      3.40
   SRCPARAM L0186576        0.0125      3.35     10.11      3.40
   SRCPARAM L0186577        0.0125      3.35     10.11      3.40
   SRCPARAM L0186578        0.0125      3.35     10.11      3.40
   SRCPARAM L0186579        0.0125      3.35     10.11      3.40
   SRCPARAM L0186580        0.0125      3.35     10.11      3.40
   SRCPARAM L0186581        0.0125      3.35     10.11      3.40
   SRCPARAM L0186582        0.0125      3.35     10.11      3.40
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   SRCPARAM L0186583        0.0125      3.35     10.11      3.40
   SRCPARAM L0186584        0.0125      3.35     10.11      3.40
   SRCPARAM L0186585        0.0125      3.35     10.11      3.40
   SRCPARAM L0186586        0.0125      3.35     10.11      3.40
   SRCPARAM L0186587        0.0125      3.35     10.11      3.40
   SRCPARAM L0186588        0.0125      3.35     10.11      3.40
   SRCPARAM L0186589        0.0125      3.35     10.11      3.40
   SRCPARAM L0186590        0.0125      3.35     10.11      3.40
   SRCPARAM L0186591        0.0125      3.35     10.11      3.40
   SRCPARAM L0186592        0.0125      3.35     10.11      3.40
   SRCPARAM L0186593        0.0125      3.35     10.11      3.40
   SRCPARAM L0186594        0.0125      3.35     10.11      3.40
   SRCPARAM L0186595        0.0125      3.35     10.11      3.40
   SRCPARAM L0186596        0.0125      3.35     10.11      3.40
   SRCPARAM L0186597        0.0125      3.35     10.11      3.40
   SRCPARAM L0186598        0.0125      3.35     10.11      3.40
   SRCPARAM L0186599        0.0125      3.35     10.11      3.40
   SRCPARAM L0186600        0.0125      3.35     10.11      3.40
   SRCPARAM L0186601        0.0125      3.35     10.11      3.40
   SRCPARAM L0186602        0.0125      3.35     10.11      3.40
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = LSBCV5
   SRCPARAM L0186603     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186604     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186605     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186606     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186607     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186608     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186609     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186610     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186611     0.0093457944      3.66     10.10      3.40
   SRCPARAM L0186612     0.0093457944      3.64     10.10      3.40
   SRCPARAM L0186613     0.0093457944      3.60     10.10      3.40
   SRCPARAM L0186614     0.0093457944      3.56     10.10      3.40
   SRCPARAM L0186615     0.0093457944      3.52     10.10      3.40
   SRCPARAM L0186616     0.0093457944      3.47     10.10      3.40
   SRCPARAM L0186617     0.0093457944      3.43     10.10      3.40
   SRCPARAM L0186618     0.0093457944      3.39     10.10      3.40
   SRCPARAM L0186619     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186620     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186621     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186622     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186623     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186624     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186625     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186626     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186627     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186628     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186629     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186630     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186631     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186632     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186633     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186634     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186635     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186636     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186637     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186638     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186639     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186640     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186641     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186642     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186643     0.0093457944      3.35     10.10      3.40
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SRCPARAM L0186644     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186645     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186646     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186647     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186648     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186649     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186650     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186651     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186652     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186653     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186654     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186655     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186656     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186657     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186658     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186659     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186660     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186661     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186662     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186663     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186664     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186665     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186666     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186667     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186668     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186669     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186670     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186671     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186672     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186673     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186674     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186675     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186676     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186677     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186678     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186679     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186680     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186681     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186682     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186683     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186684     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186685     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186686     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186687     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186688     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186689     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186690     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186691     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186692     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186693     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186694     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186695     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186696     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186697     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186698     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186699     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186700     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186701     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186702     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186703     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186704     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186705     0.0093457944      3.35     10.10      3.40
SRCPARAM L0186706     0.0093457944      3.35     10.10      3.40
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   SRCPARAM L0186707     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186708     0.0093457944      3.35     10.10      3.40
   SRCPARAM L0186709     0.0093457944      3.35     10.10      3.40
** ------------------------------------------------------------------
** LINE VOLUME Source ID = LSBBP1
   SRCPARAM L0186710     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186711     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186712     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186713     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186714     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186715     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186716     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186717     0.0111111111      3.66     10.09      3.40
   SRCPARAM L0186718     0.0111111111      3.64     10.09      3.40
   SRCPARAM L0186719     0.0111111111      3.56     10.09      3.40
   SRCPARAM L0186720     0.0111111111      3.48     10.09      3.40
   SRCPARAM L0186721     0.0111111111      3.40     10.09      3.40
   SRCPARAM L0186722     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186723     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186724     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186725     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186726     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186727     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186728     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186729     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186730     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186731     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186732     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186733     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186734     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186735     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186736     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186737     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186738     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186739     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186740     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186741     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186742     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186743     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186744     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186745     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186746     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186747     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186748     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186749     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186750     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186751     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186752     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186753     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186754     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186755     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186756     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186757     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186758     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186759     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186760     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186761     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186762     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186763     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186764     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186765     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186766     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186767     0.0111111111      3.35     10.09      3.40
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   SRCPARAM L0186768     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186769     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186770     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186771     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186772     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186773     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186774     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186775     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186776     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186777     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186778     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186779     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186780     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186781     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186782     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186783     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186784     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186785     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186786     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186787     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186788     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186789     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186790     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186791     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186792     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186793     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186794     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186795     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186796     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186797     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186798     0.0111111111      3.35     10.09      3.40
   SRCPARAM L0186799     0.0111111111      3.35     10.09      3.40
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = LSBBP2
   SRCPARAM L0186800     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186801     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186802     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186803     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186804     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186805     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186806     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186807     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186808     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186809     0.0555555556      3.66      9.87      3.40
   SRCPARAM L0186810     0.0555555556      3.64      9.87      3.40
   SRCPARAM L0186811     0.0555555556      3.60      9.87      3.40
   SRCPARAM L0186812     0.0555555556      3.56      9.87      3.40
   SRCPARAM L0186813     0.0555555556      3.52      9.87      3.40
   SRCPARAM L0186814     0.0555555556      3.48      9.87      3.40
   SRCPARAM L0186815     0.0555555556      3.44      9.87      3.40
   SRCPARAM L0186816     0.0555555556      3.40      9.87      3.40
   SRCPARAM L0186817     0.0555555556      3.36      9.87      3.40
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = LSBBP3
   SRCPARAM L0186818       0.03125      3.66      9.89      3.40
   SRCPARAM L0186819       0.03125      3.66      9.89      3.40
   SRCPARAM L0186820       0.03125      3.66      9.89      3.40
   SRCPARAM L0186821       0.03125      3.66      9.89      3.40
   SRCPARAM L0186822       0.03125      3.66      9.89      3.40
   SRCPARAM L0186823       0.03125      3.66      9.89      3.40
   SRCPARAM L0186824       0.03125      3.66      9.89      3.40
   SRCPARAM L0186825       0.03125      3.66      9.89      3.40
   SRCPARAM L0186826       0.03125      3.66      9.89      3.40
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   SRCPARAM L0186827       0.03125      3.66      9.89      3.40
   SRCPARAM L0186828       0.03125      3.66      9.89      3.40
   SRCPARAM L0186829       0.03125      3.66      9.89      3.40
   SRCPARAM L0186830       0.03125      3.66      9.89      3.40
   SRCPARAM L0186831       0.03125      3.64      9.89      3.40
   SRCPARAM L0186832       0.03125      3.61      9.89      3.40
   SRCPARAM L0186833       0.03125      3.57      9.89      3.40
   SRCPARAM L0186834       0.03125      3.54      9.89      3.40
   SRCPARAM L0186835       0.03125      3.51      9.89      3.40
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   SRCPARAM L0192375     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192377     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192378     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192379     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192381     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192383     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192384     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192387     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192393     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192394     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192395     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192396     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192398     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192399     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192401     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192402     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192403     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192404     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192407     0.0004144219      0.00      5.06      3.40
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   SRCPARAM L0192412     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192413     0.0004144219      0.00      5.06      3.40
   SRCPARAM L0192414     0.0004144219      0.00      5.06      3.40
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** LINE VOLUME Source ID = LSDVC2
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   SRCPARAM L0192416     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192417     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192418     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192419     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192420     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192421     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192422     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192423     0.027027027      3.66      5.06      3.40
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   SRCPARAM L0192427     0.027027027      3.66      5.06      3.40
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   SRCPARAM L0192436     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192437     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192438     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192439     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192440     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192441     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192442     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192443     0.027027027      3.66      5.06      3.40
   SRCPARAM L0192444     0.027027027      3.43      5.06      3.40
   SRCPARAM L0192445     0.027027027      2.99      5.06      3.40
   SRCPARAM L0192446     0.027027027      2.56      5.06      3.40
   SRCPARAM L0192447     0.027027027      2.12      5.06      3.40
   SRCPARAM L0192448     0.027027027      1.68      5.06      3.40
   SRCPARAM L0192449     0.027027027      1.25      5.06      3.40
   SRCPARAM L0192450     0.027027027      0.81      5.06      3.40
   SRCPARAM L0192451     0.027027027      0.38      5.06      3.40
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** LINE VOLUME Source ID = LSOHR1
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   SRCPARAM L0192454     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192455     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192456     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192457     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192458     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192459     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192460     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192461     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192462     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192463     0.0025125628      3.66      8.37      3.40
   SRCPARAM L0192464     0.0025125628      3.57      8.37      3.40
   SRCPARAM L0192465     0.0025125628      3.14      8.37      3.40
   SRCPARAM L0192466     0.0025125628      2.70      8.37      3.40
   SRCPARAM L0192467     0.0025125628      2.26      8.37      3.40
   SRCPARAM L0192468     0.0025125628      1.83      8.37      3.40
   SRCPARAM L0192469     0.0025125628      1.39      8.37      3.40
   SRCPARAM L0192470     0.0025125628      0.96      8.37      3.40
   SRCPARAM L0192471     0.0025125628      0.52      8.37      3.40
   SRCPARAM L0192472     0.0025125628      0.09      8.37      3.40
   SRCPARAM L0192473     0.0025125628      0.00      8.37      3.40
   SRCPARAM L0192474     0.0025125628      0.00      8.37      3.40
   SRCPARAM L0192475     0.0025125628      0.00      8.37      3.40
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   SRCPARAM L0192477     0.0025125628      0.00      8.37      3.40
   SRCPARAM L0192478     0.0025125628      0.00      8.37      3.40
   SRCPARAM L0192479     0.0025125628      0.00      8.37      3.40
   SRCPARAM L0192480     0.0025125628      0.00      8.37      3.40
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   SRCPARAM L0192482     0.0025125628      0.00      8.37      3.40
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   SRCPARAM L0192484     0.0025125628      0.00      8.37      3.40
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SRCPARAM L0192632     0.0025125628      0.00      8.37      3.40
SRCPARAM L0192633     0.0025125628      0.00      8.37      3.40
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   SRCPARAM L0193197     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193198     0.0066225166      0.00      8.37      3.40
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   SRCPARAM L0193200     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193201     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193202     0.0066225166      0.00      8.37      3.40
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   SRCPARAM L0193211     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193212     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193213     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193214     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193215     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193216     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193217     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193218     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193219     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193220     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193221     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193222     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193223     0.0066225166      0.00      8.37      3.40
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   SRCPARAM L0193227     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193228     0.0066225166      0.00      8.37      3.40
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   SRCPARAM L0193231     0.0066225166      0.00      8.37      3.40
   SRCPARAM L0193232     0.0066225166      0.08      8.37      3.40
   SRCPARAM L0193233     0.0066225166      0.29      8.37      3.40
   SRCPARAM L0193234     0.0066225166      0.49      8.37      3.40
   SRCPARAM L0193235     0.0066225166      0.69      8.37      3.40
   SRCPARAM L0193236     0.0066225166      0.90      8.37      3.40
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   SRCPARAM L0193239     0.0066225166      1.51      8.37      3.40
   SRCPARAM L0193240     0.0066225166      1.71      8.37      3.40
   SRCPARAM L0193241     0.0066225166      1.92      8.37      3.40
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   SRCPARAM L0193243     0.0066225166      2.33      8.37      3.40
   SRCPARAM L0193244     0.0066225166      2.53      8.37      3.40
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   SRCPARAM L0193248     0.0066225166      3.35      8.37      3.40
   SRCPARAM L0193249     0.0066225166      3.55      8.37      3.40
   SRCPARAM L0193250     0.0066225166      3.75      8.37      3.40
   SRCPARAM L0193251     0.0066225166      3.96      8.37      3.40
   SRCPARAM L0193252     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193253     0.0066225166      4.00      8.37      3.40
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   SRCPARAM L0193259     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193260     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193261     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193262     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193263     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193264     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193265     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193266     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193267     0.0066225166      4.00      8.37      3.40
   SRCPARAM L0193268     0.0066225166      4.00      8.37      3.40
** ------------------------------------------------------------------
   SRCPARAM SVEB1              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEB2              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEB3              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEB4              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEB5              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEB6              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN1              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN2              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN3              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN4              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN5              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN6              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVEN7              1.0     5.000   300.000  45.00000     1.000
   SRCPARAM SVED1              1.0     5.000   300.000  45.00000     1.000
   URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Scenario 2"
   EMISFACT L0185154     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0185154     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0185156     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0185157     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT ASDSP2       HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0186540     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0186540     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186541     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186542     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186603     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186729     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186786     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186787     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186788     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0186788     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0186791     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0186792     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0186792     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0186793     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186910     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186911     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0186911     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0186912     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0186912     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0186918     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186920     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0186972     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0186972     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0186977     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0187033     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187155     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0187217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0187217     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187217     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0187218     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0187219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0187219     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187219     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0187220     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187221     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187222     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0187223     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187224     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187225     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0187711     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187711     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0187712     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187712     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187712     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0187713     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0187713     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0187713     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188020     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188020     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188021     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188022     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188022     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188023     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188023     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188024     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188025     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188026     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188027     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188027     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188145     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0188146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0188146     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188146     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0188147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188150     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188151     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188152     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188697     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0188698     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0188698     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188699     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0188699     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0188705     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0188761     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189128     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0189128     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0189129     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0189129     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0189129     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189130     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189133     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189375     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0189622     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0189623     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0189624     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0189626     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0189627     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189993     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189994     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0189996     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190367     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190367     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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 EMISFACT L0190369     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
 EMISFACT L0190369     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0190369     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0190370     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0190370     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0190371     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0190372     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0190373     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190429     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190429     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190429     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190429     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190430     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190430     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190430     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190430     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0190431     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0190431     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0190432     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0190433     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0190434     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190491     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190491     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190492     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190492     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190492     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190492     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190493     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0190493     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190493     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190493     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0190494     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190494     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0190495     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190496     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190497     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190498     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0190498     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0190499     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190510     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0190737     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191107     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191108     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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 EMISFACT L0191108     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0191108     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
 EMISFACT L0191109     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
 EMISFACT L0191109     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0191109     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0191109     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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 EMISFACT L0191110     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0191111     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0191111     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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 EMISFACT L0191112     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0191113     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
 EMISFACT L0191113     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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 EMISFACT L0191114     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0191123     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191169     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191169     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191170     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191170     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191170     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191170     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191171     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191173     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191175     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191176     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191177     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191178     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191231     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191232     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191233     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191233     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191235     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191236     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191238     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191239     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0191265     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191417     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191418     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191419     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191420     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191421     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191422     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191423     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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 EMISFACT L0191424     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0191425     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0191438     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191479     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191479     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191480     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191481     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191481     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191485     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191486     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0191487     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0191517     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191604     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191609     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191609     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191610     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191610     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191727     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0191912     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191912     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191912     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191912     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191913     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191913     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191913     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191913     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191914     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191914     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191914     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191914     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191915     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191915     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191915     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0191916     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191917     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191917     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191918     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0191918     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191926     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0191990     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192038     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192038     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192039     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192039     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192040     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192053     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192099     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192099     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192100     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192100     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192160     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192161     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192162     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192163     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192163     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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 EMISFACT L0192226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
 EMISFACT L0192226     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192346     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192347     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192347     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192349     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192349     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192352     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192409     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192410     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192412     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192412     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192414     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192468     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192469     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192716     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192776     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192776     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192777     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192777     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192777     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192778     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192782     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192837     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192838     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192838     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192838     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192839     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192839     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192840     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192840     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192840     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192961     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192962     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192962     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192963     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192963     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192964     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192965     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192965     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192966     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0192966     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0192967     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192967     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192968     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0192968     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0192969     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193023     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193023     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0193024     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193024     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0193025     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193026     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193027     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193028     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193028     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0193029     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193029     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193030     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193030     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193031     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193207     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193208     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193208     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193208     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193208     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193209     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193209     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193209     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193209     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193210     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193210     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193210     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193210     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193211     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193211     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193211     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193211     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193212     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193212     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193212     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193212     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193213     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193213     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193213     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193213     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193214     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193214     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193214     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193214     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193215     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193215     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193215     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193215     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193216     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193216     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193216     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193217     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193217     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193217     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193218     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193218     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193218     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193219     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193219     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193219     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193220     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193220     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193220     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193220     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193221     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193221     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193221     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193221     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193222     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193222     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193222     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193223     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193223     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193223     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193223     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193224     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193224     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193224     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193224     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193225     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193225     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193225     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193225     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193226     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193226     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193226     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193227     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193227     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193227     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193227     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193228     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193228     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193228     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193228     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193229     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193229     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193229     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193229     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193230     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193230     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193230     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193230     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193231     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193231     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193231     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193232     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193232     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193232     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193233     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193233     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193233     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193234     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0193234     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193234     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193235     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193235     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193235     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193235     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193236     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193236     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193236     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193236     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193237     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193237     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193237     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193237     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193238     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193238     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193238     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193238     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193239     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193239     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193239     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193239     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193240     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193240     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193240     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193240     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193241     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193241     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193241     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193241     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193242     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193242     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193242     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193242     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193243     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193243     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193243     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193243     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193244     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193244     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193244     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193244     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193245     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193245     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193245     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193245     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193246     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193246     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193246     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193246     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193247     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193247     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193247     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193247     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193248     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193248     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193248     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193248     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193249     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193249     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193249     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193250     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0193250     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193250     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193250     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193251     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193251     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193251     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193251     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193252     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193252     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193252     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193252     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193253     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193253     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193253     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193253     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193254     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193254     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193254     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193254     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193255     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193255     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193255     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193255     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193256     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193256     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193256     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193256     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193257     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193257     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193257     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193257     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193258     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193258     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193258     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193258     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193259     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193259     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193259     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193259     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193260     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193260     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193260     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193260     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193261     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193261     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193261     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193261     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193262     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193262     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193263     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193263     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193264     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193264     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193265     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193265     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0193266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193266     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193266     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193267     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193267     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0193268     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193268     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0193268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Scenario 3"
   EMISFACT SVEB1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB3        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB3        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB3        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB3        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEB6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN2        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN3        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT SVEN3        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN4        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT SVEN5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN5        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN6        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT SVEN7        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN7        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN7        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVEN7        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVED1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVED1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVED1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT SVED1        HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   SRCGROUP ASBBP2   ASBBP2
   SRCGROUP ASBBP3   ASBBP3
   SRCGROUP ASBSP1   ASBSP1
   SRCGROUP ASBSP2   ASBSP2
   SRCGROUP ASBSR1   ASBSR1
   SRCGROUP ASBSR2   ASBSR2
   SRCGROUP ASBSR3   ASBSR3
   SRCGROUP ASBSR4   ASBSR4
   SRCGROUP ASBSR5   ASBSR5
   SRCGROUP ASDSP1   ASDSP1
   SRCGROUP ASDSP2   ASDSP2
   SRCGROUP ASDSP3   ASDSP3
   SRCGROUP ASDSR1   ASDSR1
   SRCGROUP ASDSR2   ASDSR2
   SRCGROUP ASNSR1   ASNSR1
   SRCGROUP ASNSR2   ASNSR2
   SRCGROUP ASNSR3   ASNSR3
   SRCGROUP LSBBP1   L0186710 L0186711 L0186712 L0186713 L0186714 L0186715
   SRCGROUP LSBBP1   L0186716 L0186717 L0186718 L0186719 L0186720 L0186721
   SRCGROUP LSBBP1   L0186722 L0186723 L0186724 L0186725 L0186726 L0186727
   SRCGROUP LSBBP1   L0186728 L0186729 L0186730 L0186731 L0186732 L0186733
   SRCGROUP LSBBP1   L0186734 L0186735 L0186736 L0186737 L0186738 L0186739
   SRCGROUP LSBBP1   L0186740 L0186741 L0186742 L0186743 L0186744 L0186745
   SRCGROUP LSBBP1   L0186746 L0186747 L0186748 L0186749 L0186750 L0186751
   SRCGROUP LSBBP1   L0186752 L0186753 L0186754 L0186755 L0186756 L0186757
   SRCGROUP LSBBP1   L0186758 L0186759 L0186760 L0186761 L0186762 L0186763
   SRCGROUP LSBBP1   L0186764 L0186765 L0186766 L0186767 L0186768 L0186769
   SRCGROUP LSBBP1   L0186770 L0186771 L0186772 L0186773 L0186774 L0186775
   SRCGROUP LSBBP1   L0186776 L0186777 L0186778 L0186779 L0186780 L0186781
   SRCGROUP LSBBP1   L0186782 L0186783 L0186784 L0186785 L0186786 L0186787
   SRCGROUP LSBBP1   L0186788 L0186789 L0186790 L0186791 L0186792 L0186793
   SRCGROUP LSBBP1   L0186794 L0186795 L0186796 L0186797 L0186798 L0186799
   SRCGROUP LSBBP2   L0186800 L0186801 L0186802 L0186803 L0186804 L0186805
   SRCGROUP LSBBP2   L0186806 L0186807 L0186808 L0186809 L0186810 L0186811
   SRCGROUP LSBBP2   L0186812 L0186813 L0186814 L0186815 L0186816 L0186817
   SRCGROUP LSBBP3   L0186818 L0186819 L0186820 L0186821 L0186822 L0186823
   SRCGROUP LSBBP3   L0186824 L0186825 L0186826 L0186827 L0186828 L0186829
   SRCGROUP LSBBP3   L0186830 L0186831 L0186832 L0186833 L0186834 L0186835
   SRCGROUP LSBBP3   L0186836 L0186837 L0186838 L0186839 L0186840 L0186841
   SRCGROUP LSBBP3   L0186842 L0186843 L0186844 L0186845 L0186846 L0186847
   SRCGROUP LSBBP3   L0186848 L0186849
   SRCGROUP LSBCV1   L0185930 L0185931 L0185932 L0185933 L0185934 L0185935
   SRCGROUP LSBCV1   L0185936 L0185937 L0185938 L0185939 L0185940 L0185941
   SRCGROUP LSBCV1   L0185942 L0185943 L0185944 L0185945 L0185946 L0185947
   SRCGROUP LSBCV1   L0185948 L0185949 L0185950 L0185951 L0185952 L0185953
   SRCGROUP LSBCV1   L0185954 L0185955 L0185956 L0185957 L0185958 L0185959
   SRCGROUP LSBCV1   L0185960 L0185961 L0185962 L0185963 L0185964 L0185965
   SRCGROUP LSBCV1   L0185966 L0185967 L0185968 L0185969 L0185970 L0185971
   SRCGROUP LSBCV1   L0185972 L0185973 L0185974 L0185975 L0185976 L0185977
   SRCGROUP LSBCV1   L0185978 L0185979 L0185980 L0185981 L0185982 L0185983
   SRCGROUP LSBCV1   L0185984 L0185985 L0185986 L0185987 L0185988 L0185989
   SRCGROUP LSBCV1   L0185990 L0185991 L0185992 L0185993 L0185994 L0185995
   SRCGROUP LSBCV1   L0185996 L0185997 L0185998 L0185999 L0186000 L0186001
   SRCGROUP LSBCV1   L0186002 L0186003 L0186004 L0186005 L0186006 L0186007
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SRCGROUP LSBCV1   L0186008 L0186009 L0186010 L0186011 L0186012 L0186013
SRCGROUP LSBCV1   L0186014 L0186015 L0186016 L0186017 L0186018 L0186019
SRCGROUP LSBCV1   L0186020 L0186021 L0186022 L0186023 L0186024 L0186025
SRCGROUP LSBCV1   L0186026 L0186027 L0186028 L0186029 L0186030 L0186031
SRCGROUP LSBCV1   L0186032 L0186033 L0186034 L0186035 L0186036 L0186037
SRCGROUP LSBCV1   L0186038 L0186039 L0186040 L0186041 L0186042 L0186043
SRCGROUP LSBCV1   L0186044 L0186045 L0186046 L0186047 L0186048 L0186049
SRCGROUP LSBCV1   L0186050 L0186051 L0186052 L0186053 L0186054 L0186055
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SRCGROUP LSBCV1   L0186062 L0186063 L0186064 L0186065 L0186066 L0186067
SRCGROUP LSBCV1   L0186068 L0186069 L0186070 L0186071 L0186072 L0186073
SRCGROUP LSBCV1   L0186074 L0186075 L0186076 L0186077 L0186078 L0186079
SRCGROUP LSBCV1   L0186080 L0186081 L0186082 L0186083 L0186084 L0186085
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SRCGROUP LSBCV1   L0186092 L0186093 L0186094 L0186095 L0186096 L0186097
SRCGROUP LSBCV1   L0186098 L0186099 L0186100 L0186101 L0186102 L0186103
SRCGROUP LSBCV1   L0186104 L0186105 L0186106 L0186107 L0186108 L0186109
SRCGROUP LSBCV1   L0186110 L0186111 L0186112 L0186113 L0186114 L0186115
SRCGROUP LSBCV1   L0186116 L0186117 L0186118 L0186119 L0186120 L0186121
SRCGROUP LSBCV1   L0186122 L0186123 L0186124 L0186125 L0186126 L0186127
SRCGROUP LSBCV1   L0186128 L0186129 L0186130 L0186131 L0186132 L0186133
SRCGROUP LSBCV1   L0186134 L0186135 L0186136 L0186137 L0186138 L0186139
SRCGROUP LSBCV1   L0186140 L0186141 L0186142 L0186143 L0186144 L0186145
SRCGROUP LSBCV1   L0186146 L0186147 L0186148 L0186149 L0186150 L0186151
SRCGROUP LSBCV1   L0186152 L0186153 L0186154 L0186155 L0186156 L0186157
SRCGROUP LSBCV1   L0186158 L0186159 L0186160 L0186161 L0186162 L0186163
SRCGROUP LSBCV1   L0186164 L0186165 L0186166 L0186167 L0186168 L0186169
SRCGROUP LSBCV1   L0186170 L0186171 L0186172 L0186173 L0186174 L0186175
SRCGROUP LSBCV1   L0186176 L0186177 L0186178 L0186179 L0186180 L0186181
SRCGROUP LSBCV1   L0186182 L0186183 L0186184 L0186185 L0186186 L0186187
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SRCGROUP LSBCV1   L0186194 L0186195 L0186196 L0186197
SRCGROUP LSBCV2   L0186198 L0186199 L0186200 L0186201 L0186202 L0186203
SRCGROUP LSBCV2   L0186204 L0186205 L0186206 L0186207 L0186208 L0186209
SRCGROUP LSBCV2   L0186210 L0186211 L0186212 L0186213 L0186214 L0186215
SRCGROUP LSBCV2   L0186216 L0186217 L0186218 L0186219 L0186220 L0186221
SRCGROUP LSBCV2   L0186222 L0186223 L0186224 L0186225 L0186226 L0186227
SRCGROUP LSBCV2   L0186228 L0186229 L0186230 L0186231 L0186232 L0186233
SRCGROUP LSBCV2   L0186234 L0186235 L0186236 L0186237 L0186238 L0186239
SRCGROUP LSBCV2   L0186240 L0186241 L0186242 L0186243 L0186244 L0186245
SRCGROUP LSBCV2   L0186246 L0186247 L0186248 L0186249 L0186250 L0186251
SRCGROUP LSBCV2   L0186252 L0186253 L0186254 L0186255 L0186256 L0186257
SRCGROUP LSBCV2   L0186258 L0186259 L0186260 L0186261 L0186262 L0186263
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SRCGROUP LSBCV2   L0186276 L0186277 L0186278 L0186279 L0186280 L0186281
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SRCGROUP LSBCV2   L0186294 L0186295 L0186296 L0186297 L0186298 L0186299
SRCGROUP LSBCV2   L0186300 L0186301 L0186302 L0186303 L0186304 L0186305
SRCGROUP LSBCV2   L0186306 L0186307 L0186308 L0186309 L0186310 L0186311
SRCGROUP LSBCV2   L0186312 L0186313 L0186314 L0186315 L0186316 L0186317
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SRCGROUP LSBCV2   L0186366 L0186367 L0186368 L0186369 L0186370 L0186371
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SRCGROUP LSBCV2   L0186378 L0186379 L0186380 L0186381 L0186382 L0186383
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SRCGROUP LSBCV2   L0186390 L0186391 L0186392 L0186393 L0186394 L0186395
SRCGROUP LSBCV2   L0186396 L0186397 L0186398 L0186399 L0186400 L0186401
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SRCGROUP LSBCV2   L0186408 L0186409 L0186410 L0186411 L0186412 L0186413
SRCGROUP LSBCV2   L0186414 L0186415 L0186416 L0186417 L0186418 L0186419
SRCGROUP LSBCV2   L0186420 L0186421 L0186422 L0186423 L0186424 L0186425
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SRCGROUP LSBCV2   L0186438 L0186439 L0186440 L0186441 L0186442 L0186443
SRCGROUP LSBCV2   L0186444 L0186445 L0186446 L0186447 L0186448 L0186449
SRCGROUP LSBCV2   L0186450 L0186451 L0186452 L0186453 L0186454 L0186455
SRCGROUP LSBCV2   L0186456 L0186457 L0186458 L0186459 L0186460 L0186461
SRCGROUP LSBCV2   L0186462 L0186463
SRCGROUP LSBCV3   L0186464 L0186465 L0186466 L0186467 L0186468 L0186469
SRCGROUP LSBCV3   L0186470 L0186471 L0186472 L0186473 L0186474 L0186475
SRCGROUP LSBCV3   L0186476 L0186477 L0186478 L0186479 L0186480 L0186481
SRCGROUP LSBCV3   L0186482 L0186483 L0186484 L0186485 L0186486 L0186487
SRCGROUP LSBCV3   L0186488 L0186489 L0186490 L0186491 L0186492 L0186493
SRCGROUP LSBCV3   L0186494 L0186495 L0186496 L0186497 L0186498 L0186499
SRCGROUP LSBCV3   L0186500 L0186501 L0186502 L0186503 L0186504 L0186505
SRCGROUP LSBCV3   L0186506 L0186507 L0186508 L0186509 L0186510 L0186511
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SRCGROUP LSBCV4   L0186523 L0186524 L0186525 L0186526 L0186527 L0186528
SRCGROUP LSBCV4   L0186529 L0186530 L0186531 L0186532 L0186533 L0186534
SRCGROUP LSBCV4   L0186535 L0186536 L0186537 L0186538 L0186539 L0186540
SRCGROUP LSBCV4   L0186541 L0186542 L0186543 L0186544 L0186545 L0186546
SRCGROUP LSBCV4   L0186547 L0186548 L0186549 L0186550 L0186551 L0186552
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SRCGROUP LSBCV4   L0186577 L0186578 L0186579 L0186580 L0186581 L0186582
SRCGROUP LSBCV4   L0186583 L0186584 L0186585 L0186586 L0186587 L0186588
SRCGROUP LSBCV4   L0186589 L0186590 L0186591 L0186592 L0186593 L0186594
SRCGROUP LSBCV4   L0186595 L0186596 L0186597 L0186598 L0186599 L0186600
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SRCGROUP LSBCV5   L0186615 L0186616 L0186617 L0186618 L0186619 L0186620
SRCGROUP LSBCV5   L0186621 L0186622 L0186623 L0186624 L0186625 L0186626
SRCGROUP LSBCV5   L0186627 L0186628 L0186629 L0186630 L0186631 L0186632
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SRCGROUP LSBCV5   L0186681 L0186682 L0186683 L0186684 L0186685 L0186686
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SRCGROUP LSBCV5   L0186693 L0186694 L0186695 L0186696 L0186697 L0186698
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SRCGROUP LSBCV5   L0186705 L0186706 L0186707 L0186708 L0186709
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SRCGROUP LSDVC1   L0190008 L0190009 L0190010 L0190011 L0190012 L0190013
SRCGROUP LSDVC1   L0190014 L0190015 L0190016 L0190017 L0190018 L0190019
SRCGROUP LSDVC1   L0190020 L0190021 L0190022 L0190023 L0190024 L0190025
SRCGROUP LSDVC1   L0190026 L0190027 L0190028 L0190029 L0190030 L0190031
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SRCGROUP LSDVC1   L0190038 L0190039 L0190040 L0190041 L0190042 L0190043
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SRCGROUP LSDVC1   L0190056 L0190057 L0190058 L0190059 L0190060 L0190061
SRCGROUP LSDVC1   L0190062 L0190063 L0190064 L0190065 L0190066 L0190067
SRCGROUP LSDVC1   L0190068 L0190069 L0190070 L0190071 L0190072 L0190073
SRCGROUP LSDVC1   L0190074 L0190075 L0190076 L0190077 L0190078 L0190079
SRCGROUP LSDVC1   L0190080 L0190081 L0190082 L0190083 L0190084 L0190085
SRCGROUP LSDVC1   L0190086 L0190087 L0190088 L0190089 L0190090 L0190091
SRCGROUP LSDVC1   L0190092 L0190093 L0190094 L0190095 L0190096 L0190097
SRCGROUP LSDVC1   L0190098 L0190099 L0190100 L0190101 L0190102 L0190103
SRCGROUP LSDVC1   L0190104 L0190105 L0190106 L0190107 L0190108 L0190109
SRCGROUP LSDVC1   L0190110 L0190111 L0190112 L0190113 L0190114 L0190115
SRCGROUP LSDVC1   L0190116 L0190117 L0190118 L0190119 L0190120 L0190121
SRCGROUP LSDVC1   L0190122 L0190123 L0190124 L0190125 L0190126 L0190127
SRCGROUP LSDVC1   L0190128 L0190129 L0190130 L0190131 L0190132 L0190133
SRCGROUP LSDVC1   L0190134 L0190135 L0190136 L0190137 L0190138 L0190139
SRCGROUP LSDVC1   L0190140 L0190141 L0190142 L0190143 L0190144 L0190145
SRCGROUP LSDVC1   L0190146 L0190147 L0190148 L0190149 L0190150 L0190151
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SRCGROUP LSDVC1   L0190170 L0190171 L0190172 L0190173 L0190174 L0190175
SRCGROUP LSDVC1   L0190176 L0190177 L0190178 L0190179 L0190180 L0190181
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** AERMOD Receptor Pathway
**************************************
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RE FINISHED
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**************************************
** AERMOD Meteorology Pathway
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   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 228.0 METERS
ME FINISHED
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** AERMOD Output Pathway
**************************************
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OU STARTING
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   RECTABLE 1 1ST
** Auto-Generated Plotfiles
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   PLOTFILE 1 ASBBP1 1ST "SSFL 2017 SEN2.AD\01H1G001.PLT" 32
   PLOTFILE 1 ASBBP2 1ST "SSFL 2017 SEN2.AD\01H1G002.PLT" 33
   PLOTFILE 1 ASBBP3 1ST "SSFL 2017 SEN2.AD\01H1G003.PLT" 34
   PLOTFILE 1 ASBSP1 1ST "SSFL 2017 SEN2.AD\01H1G004.PLT" 35
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   PLOTFILE 1 ASBSR1 1ST "SSFL 2017 SEN2.AD\01H1G006.PLT" 37
   PLOTFILE 1 ASBSR2 1ST "SSFL 2017 SEN2.AD\01H1G007.PLT" 38
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   PLOTFILE 1 LSBBP3 1ST "SSFL 2017 SEN2.AD\01H1G021.PLT" 52
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   PLOTFILE 1 LSDVC2 1ST "SSFL 2017 SEN2.AD\01H1G028.PLT" 59
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** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
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Appendix G
Risk of Upset Worksheets

ESA

Santa Susana Field Laboratory
Accident Release Risk Assessment Calculations

	Overall Project				
	Outbound Trips [a]	Miles per Trip [b]	Rural	Urban	Total
Project Estimated Total Vehicle Miles Traveled (within California)					
(based on maximum annual estimated VMT and rural/urban split)			50%	50%	
Data Sources:	***PEIR, Table 3-4:***	***PEIR, Appx. D & G:***			
Boeing (Hazardous Waste):	4,110	291.00	598,005	598,005	1,196,010
Boeing (Radiological/Mixed Waste):	1,110	398.51	221,173	221,173	442,346
DOE (Hazardous Waste):	3,200	228.00	364,800	364,800	729,600
DOE (Radiological/Mixed Waste):	5,940	288.80	857,736	857,736	1,715,472
NASA (Hazardous Waste):	45,400	297.39	6,750,753	6,750,753	13,501,506
NASA (Radiological/Mixed Waste):	1,700	398.51	338,734	338,734	677,467
Total Trips and VMT (outbound trips):	*61,460*		*9,131,201*	*9,131,201*	*18,262,401*
Maximum Truck Accident Involvement Rate:			1.18	2.18	
Per # of miles:			1,000,000	1,000,000	
(Source: Argonne National Laboratory, 1996)					
Project Estimated Vehicle Miles Traveled (outbound trips):			9,131,201	9,131,201	18,262,401
Project Estimated Truck Accident Involvement Rate:			10.77	19.91	30.68
Probability of Release of Solid Haz. Mat. in an Accident:			9.10%	9.10%	9.10%
(Source: Argonne National Laboratory, 1996)					
Project Probability of Release of Solid Hazardous Material:			**0.98**	**1.81**	**2.79**

Notes:

a. Outbound trips based on data provided in Section 3.0, Project Description, of the Draft Program EIR (refer to Table 3-4 and associated discussions).

b. Miles per trip based on data provided in Appendix D (Air Quality Worksheets) and Appendix G (Greenhouse Gas Worksheets) of the Draft Program EIR.

	Initial Projects				
	Outbound Trips [c]	Miles per Trip [d]	Rural	Urban	Total
Project Estimated Total Vehicle Miles Traveled (within California)					
(based on maximum annual estimated VMT and rural/urban split)			50%	50%	
Data Sources:	***PEIR, Table 3-15:***	***PEIR, Appx. D & G:***			
Demolition - Boeing TTF Closure (Mixed Waste):	26	288.80	3,754	3,754	7,509
	PEIR, Table 3-11:				
Demolition - DOE (Radiological/Mixed Waste):	361	288.80	52,128	52,128	104,257
	PEIR, Table 3-9:				
Area IV (Radiological/Mixed Waste): [e]	5,936	288.80	857,158	857,158	1,714,317
Area IV (Hazardous):	3,200	125.00	200,000	200,000	400,000
	PEIR, Table 3-10:				
Liquid Oxygen Plant (Hazardous):	3,890	297.39	578,424	578,424	1,156,847
	PEIR, Table 3-14:				
RMHF/HWMF (Hazardous):	13	125.00	813	813	1,625
	PEIR, Table 3-13:				
RMHF/HWMF (Radiological/Mixed Waste):	248	288.80	35,811	35,811	71,622
Total Trips and VMT (outbound trips):	*13,674*		*1,728,088*	*1,728,088*	*3,456,177*
Maximum Truck Accident Involvement Rate:			1.18	2.18	
Per # of miles:			1,000,000	1,000,000	
(Source: Argonne National Laboratory, 1996)					
Project Estimated Vehicle Miles Traveled (outbound trips):			1,728,088	1,728,088	3,456,177
Project Estimated Truck Accident Involvement Rate:			2.04	3.77	5.81
Probability of Release of Solid Haz. Mat. in an Accident:			9.10%	9.10%	9.10%
(Source: Argonne National Laboratory, 1996)					
Project Probability of Release of Solid Hazardous Material:			**0.19**	**0.34**	**0.53**

Notes:

c. Outbound trips based on data provided in Section 3.0, Project Description, of the Draft Program EIR (refer to Tables 3-9, -10, -11, -13, -14, and -15, and associated discussions).

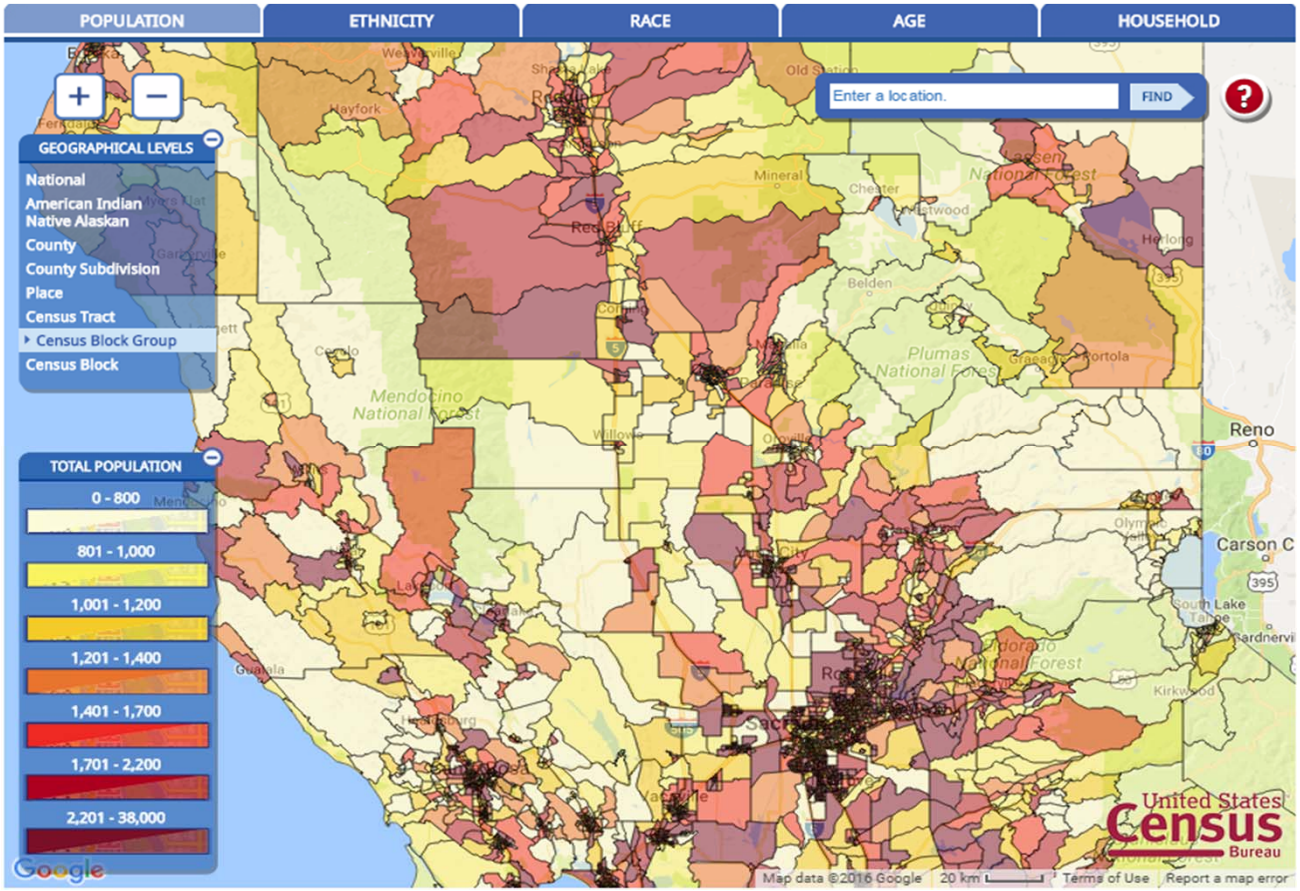
d. Miles per trip based on data provided in Appendix D (Air Quality Worksheets) and Appendix G (Greenhouse Gas Worksheets) of the Draft Program EIR.

e. Calculated as 196 + 2,870 + 2,870 outbound trips from PEIR Table 3-9.

U.S. Census Bureau, Census Block Group Data
https://www.census.gov/2010census/popmap/

For the 2010 Census, an urban area comprises census tracts or census blocks that, among other requirements, encompass at least 2,500 people (76 Fed. Reg. 164 (August 24, 2011) 53029-53043). Rural areas are all other areas not classified as urban.

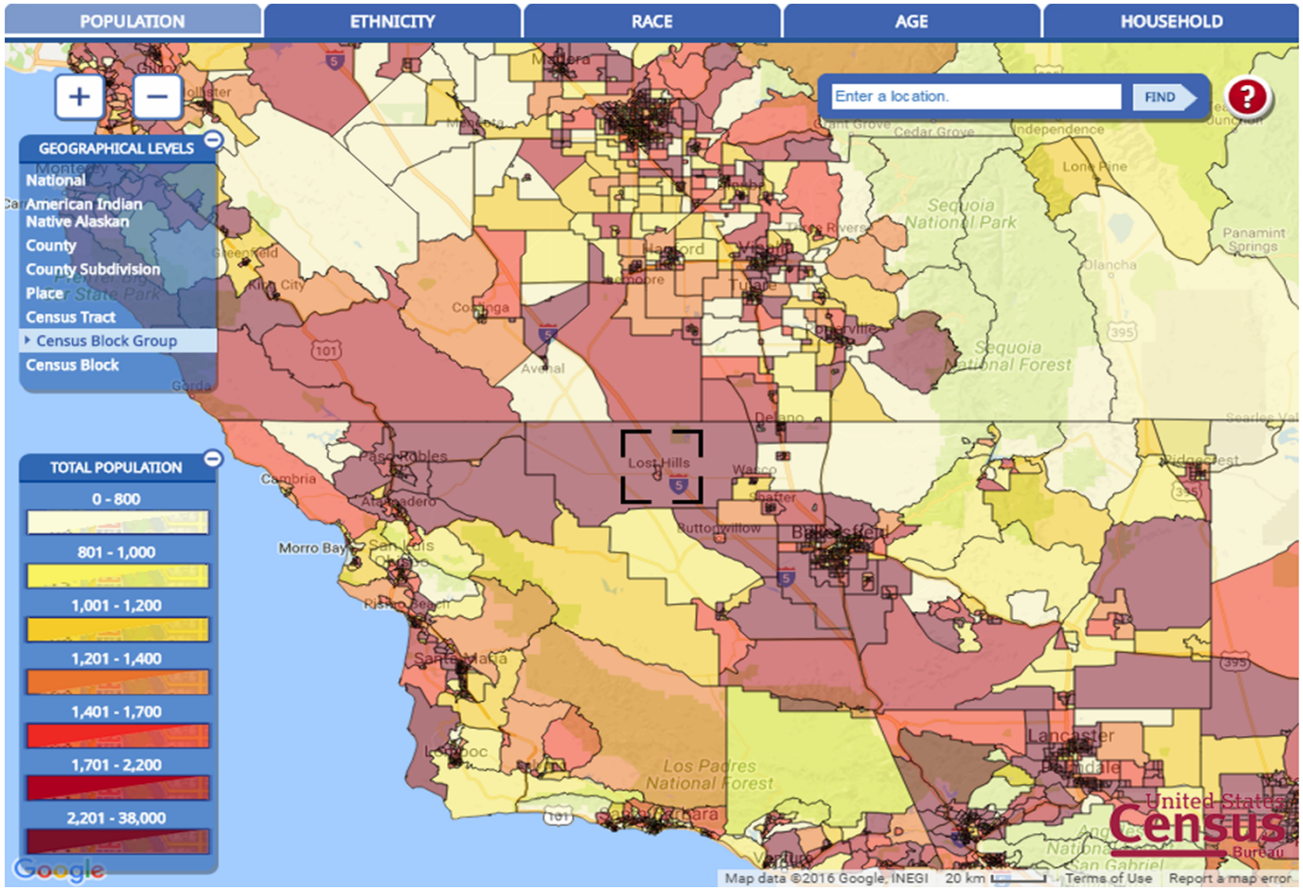
Northern Califoria: As shown, the major transit route (i.e., Interstate 5) traverses primarly through rural areas (indicated by all shaded categories except the darkest shade category).



U.S. Census Bureau, Census Block Group Data
https://www.census.gov/2010census/popmap/

For the 2010 Census, an urban area comprises census tracts or census blocks that, among other requirements, encompass at least 2,500 people (76 Fed. Reg. 164 (August 24, 2011) 53029-53043). Rural areas are all other areas not classified as urban.

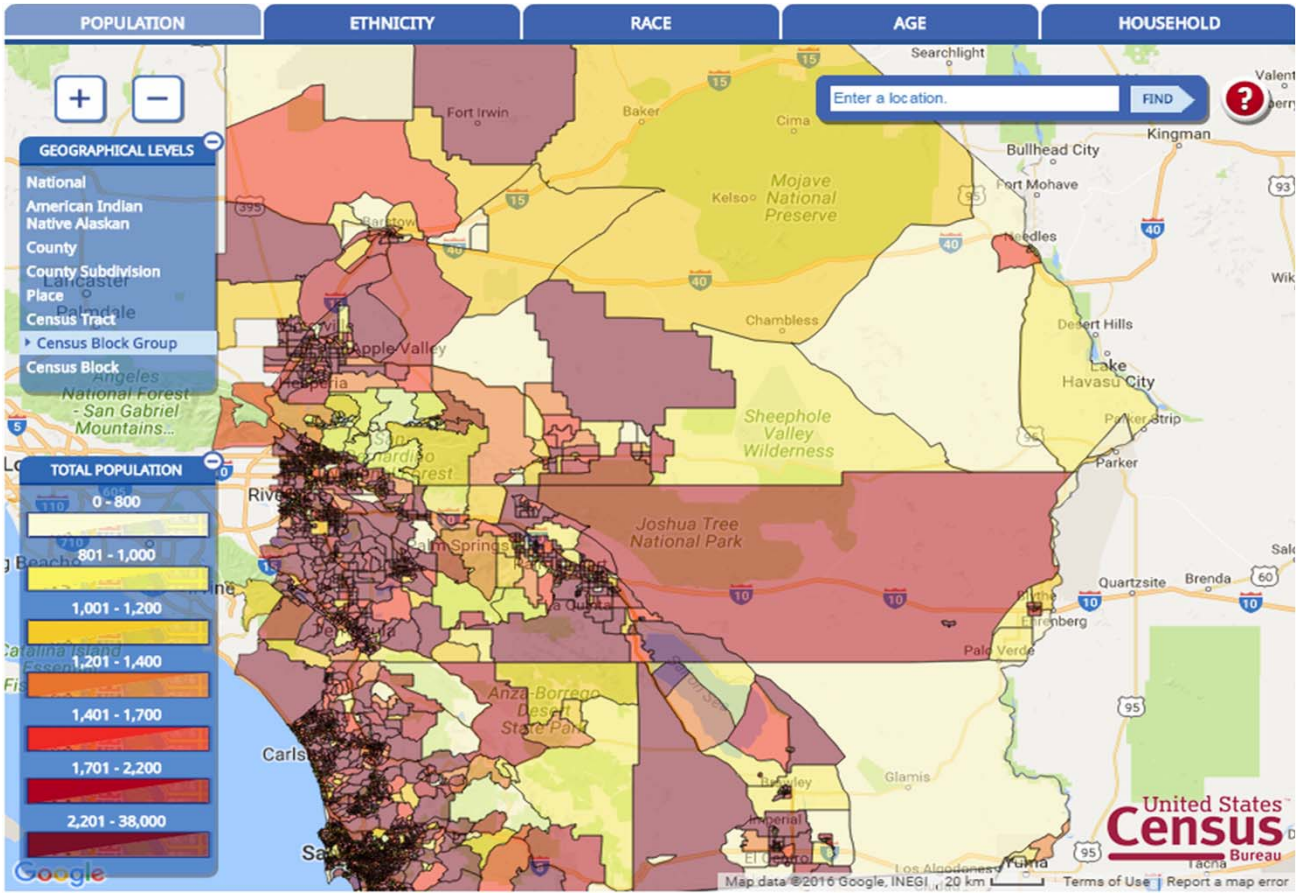
Central Califoria: As shown, the major transit route (e.g., Interstate 5) traverses primarily through rural areas (indicated by all shaded categories except the darkest shade category).



U.S. Census Bureau, Census Block Group Data
https://www.census.gov/2010census/popmap/

For the 2010 Census, an urban area comprises census tracts or census blocks that, among other requirements, encompass at least 2,500 people (76 Fed. Reg. 164 (August 24, 2011) 53029-53043). Rural areas are all other areas not classified as urban.

Southern Califoria: As shown, the major transit routes (e.g., Interstate 5, Interstate 10, Interstate 15, Interstate 40) traverse primarly through rural areas (indicated by all shaded categories except the darkest shade category). (Note: The Census Block Group in Eastern Riverside County is classifed as rural as it corresponds to the second darkest shade category).



Santa Susana Field Laboratory
Accident Release Risk Assessment Calculations
Out-of-State (outside of California)

	Overall Project				
	Outbound Trips [f]	Miles per Trip [g]	Rural	Urban	Total
Project Estimated Total Vehicle Miles Traveled (outside California)					
(based on maximum annual estimated VMT and rural/urban split)			50%	50%	
Data Sources:	***DEIR, Table 3-4:***	***DEIR, Appx. D & G:***			
Boeing (Hazardous Waste):	4,110	-	-	-	-
Boeing (Radiological/Mixed Waste):	1,110	299.49	166,217	166,217	332,434
DOE (Hazardous Waste):	3,200	-	-	-	-
DOE (Radiological/Mixed Waste):	5,940	48.20	143,154	143,154	286,308
NASA (Hazardous Waste):	45,400	26.61	604,047	604,047	1,208,094
NASA (Radiological/Mixed Waste):	1,700	299.49	254,567	254,567	509,133
Total Trips and VMT (outbound trips):	*61,460*		*1,167,984*	*1,167,984*	*2,335,969*
Maximum Truck Accident Involvement Rate:			1.18	2.18	
Per # of miles:			1,000,000	1,000,000	
(Source: Argonne National Laboratory, 1996)					
Project Estimated Vehicle Miles Traveled (outbound trips):			1,167,984	1,167,984	2,335,969
Project Estimated Truck Accident Involvement Rate:			1.38	2.55	3.92
Probability of Release of Solid Haz. Mat. in an Accident:			9.10%	9.10%	9.10%
(Source: Argonne National Laboratory, 1996)					
Project Probability of Release of Solid Hazardous Material:			**0.13**	**0.23**	**0.36**

Notes:

f. Outbound trips based on data provided in Section 3.0, Project Description, of the Draft Program EIR (refer to Table 3-4 and associated discussions).

g. Miles per trip based on data provided in Appendix D (Air Quality Worksheets) and Appendix G (Greenhouse Gas Worksheets) of the Draft Program EIR.

	Initial Projects				
	Outbound Trips [h]	Miles per Trip [i]	Rural	Urban	Total
Project Estimated Total Vehicle Miles Traveled (outside California)					
(based on maximum annual estimated VMT and rural/urban split)			50%	50%	
Data Sources:	***DEIR, Table 3-15:***	***DEIR, Appx. D & G:***			
Demolition - Boeing (Mixed Waste):	26	48.20	627	627	1,253
	DEIR, Table 3-11:				
Demolition - DOE (Radiological/Mixed Waste):	361	48.20	8,700	8,700	17,400
	DEIR, Table 3-9:				
Area IV (Radiological/Mixed Waste): [j]	5,936	48.20	143,058	143,058	286,115
Area IV (Hazardous):	3,200	-	-	-	-
	DEIR, Table 3-10:				
Liquid Oxygen Plant (Hazardous):	3,890	26.61	51,756	51,756	103,513
	DEIR, Table 3-14:				
RMHF/HWMF (Hazardous):	13	-	-	-	-
	DEIR, Table 3-13:				
RMHF/HWMF (Radiological/Mixed Waste):	248	48.20	5,977	5,977	11,954
Total Trips and VMT (outbound trips):	*13,674*		*210,118*	*210,118*	*420,235*
Maximum Truck Accident Involvement Rate:			1.18	2.18	
Per # of miles:			1,000,000	1,000,000	
(Source: Argonne National Laboratory, 1996)					
Project Estimated Vehicle Miles Traveled (outbound trips):			210,118	210,118	420,235
Project Estimated Truck Accident Involvement Rate:			0.25	0.46	0.71
Probability of Release of Solid Haz. Mat. in an Accident:			9.10%	9.10%	9.10%
(Source: Argonne National Laboratory, 1996)					
Project Probability of Release of Solid Hazardous Material:			**0.02**	**0.04**	**0.06**

Notes:

h. Outbound trips based on data provided in Section 3.0, Project Description, of the Draft Program EIR (refer to Tables 3-9, -10, -11, -13, -14, and -15, and associated discussions).

i. Miles per trip based on data provided in Appendix D (Air Quality Worksheets) and Appendix G (Greenhouse Gas Worksheets) of the Draft Program EIR.

j. Calculated as 196 + 2,870 + 2,870 outbound trips from PEIR Table 3-9.

Appendix H
Traffic Study

ESA

Traffic Study for

Santa Susana
Field Laboratory EIR
Los Angeles, CA

March 10, 2017

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1. Introduction

The purpose of this traffic study is to assess the traffic impacts on the surrounding roadway system of proposed construction activities for the Simi Valley Santa Susana Site Remediation (Project) EIR.

The study quantitatively assesses project impacts on weekday a.m. and p.m. peak hour operations at 16 study intersections and 11 study roadway segments for remediation activities near the project site. This includes the major signalized/unsignalized intersections and adjacent roadway segments along employee vehicle and truck haul truck routes to and from the Project site.

Any potential traffic impacts from the proposed remediation activities (referred to in this document as the Project) would be related to employee vehicle travel and truck hauling trips. Once the project remediation efforts are completed, the trip generation from the project site is expected to be reduced to negligible levels with some potential maintenance activities remaining at the site.

A. Project Location

The Santa Susana Field Laboratory (SSFL) is an existing nuclear reactor and liquid propellant rocket engine testing and research site that is owned by Boeing and the U.S. Federal Government. Some areas within the site are operated by the US Department of Energy (DOE) and The National Aeronautics and Space Administration (NASA).

The site is located within the County of Los Angeles, south of the SR-118 Freeway and the City of Simi Valley, west of Valley Circle Boulevard, and north of the Bell Canyon neighborhood of Los Angeles.

Figure 1 illustrates the location of the SSFL site.

B. Project Site Remediation

The California Department of Toxic Substances Control (DTSC) is leading an environmental study for the proposed cleanup of the site. DTSC is working with the Responsible Parties (RPs) of Boeing, DOE, and NASA to plan for the cleanup effort.

This report summarizes the following efforts, conducted by KOA and its subconsultants:

- Inventory of potential new truck haul routes to and from the site;
- Documentation of peak remediation employee project population and daily truck hauling needs, and the related number of trips for each;
- Analysis of potential traffic impacts from remediation operations, using public roadways on east side of site; and
- Analysis of truck haul routes.

The SSFL is a research, development and testing site of approximately 55 acres in size. The SSFL site is at a higher physical altitude than the surrounding open space and developed areas. There are downhill grades leading away from the site that are a major consideration in the feasibility analysis of new haul truck roadways. To the north and east of the site there are public roadway networks, and to the north of the site is an east-west railroad corridor that is owned by the Union Pacific Railroad.

The California Department of Toxic Substances Control (DTSC) is preparing a Program Environmental Impact Report (EIR) for contaminated soil and groundwater remediation projects at the Santa Susana Field Laboratory (SSFL) site in Ventura County, California.

DTSC is the lead state regulatory agency for making determinations on the final soil and groundwater investigation, remedy selection, design, and implementation at SSFL. The responsible parties of the various portions of SSFL include The Boeing Company (Boeing), U.S. Department of Energy (DOE) and the National Aeronautics and Space Administration (NASA). The project area includes the SSFL site and the immediate surrounding vicinity. The SSFL site is composed of four administrative areas (Areas I, II, III, IV), each with Solid Waste Management Units and Areas of Concern; and two buffer zones (Northern Buffer Zone and Southern Buffer Zone).

The proposed project includes the activities necessary to implement soil and groundwater remediation. The anticipated remediation approaches and methodologies for surface media (soil and related surficial media) will be further defined in Corrective Measures Study (CMS) work plans to be submitted by Boeing and comparable Soils Remedial Action Implementation Plans to be submitted by DOE and NASA for each of their respective areas at the SSFL site. The anticipated remediation approaches and methodologies for groundwater will be further defined by the Groundwater Remedial Investigation and CMS, being conducted by Boeing, DOE, and NASA.

Construction Duration and Intensity

Project remediation activities are planned by DTSC to occur over an approximate 15-year period, planned to start in 2018 and finish in 2032. Remediation activities would peak during the overall period but the peak period of the anticipated years of peak activity cannot be determined at this time. The traffic impact analysis includes a peak operations scenario and a general operations scenario.

Trip generation estimates for construction truck trips and construction employee vehicle trips are discussed further within Section 4 of this report.

C. Project Study Area

The Project construction activities would generate additional vehicle trips in the immediate area, based on necessary truck hauling/delivery trips and the remediation employee population.

Turn movement counts were conducted on a weekday during a.m. and p.m. peak periods (7:00 a.m. to 9:00 a.m., 4:00 p.m. to 6:00 p.m.) for each study intersection location, on Thursday, December 18, 2014; Tuesday, April 28, 2015; and Thursday, June 18, 2015. Roadway segment counts were conducted over one contiguous 24-hour weekday timeframe. Additional counts were obtained from the Los Angeles

Department of Transportation (LADOT) online database for Wednesday, March 5, 2014, during the a.m. and p.m. peak periods.

The table below defines the study intersections that were included in the traffic impact analysis. Intersections were included where Project trucks and employee trips would turn to reach the Project site and where access to and from the freeway would be provided for these trips.

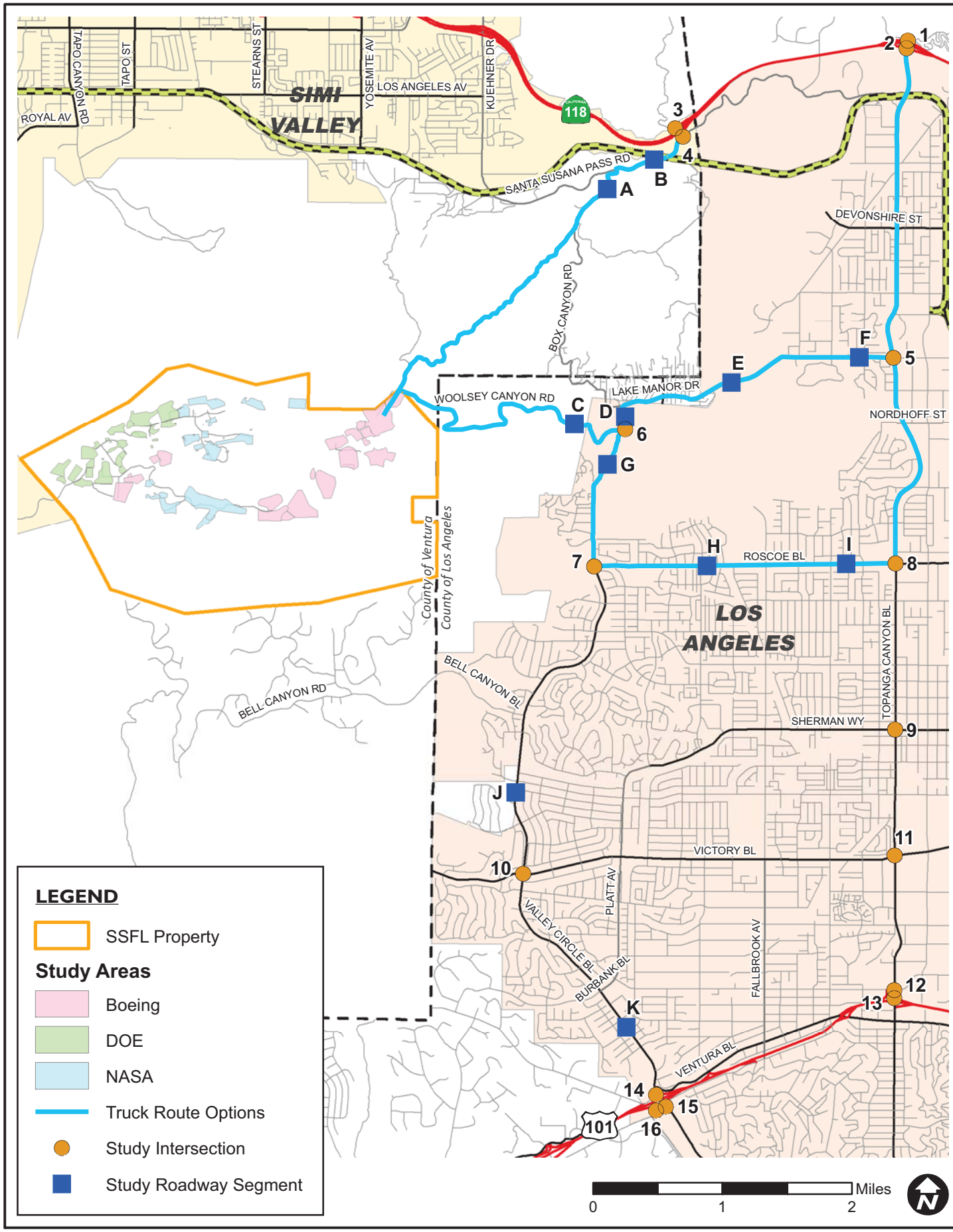
	Study Intersections	Jurisdiction
1	Topanga Canyon Blvd & SR-118 WB Ramps	County of Los Angeles
2	Topanga Canyon Blvd & SR-118 EB Ramps	City of Los Angeles
3	Rocky Peak Rd & SR-118 WB Ramps *	City of Simi Valley
4	Rocky Peak Rd & Santa Susana Pass Rd *	City of Simi Valley
5	Topanga Canyon Blvd & Plummer St	City of Los Angeles
6	Valley Circle Blvd & Woolsey Canyon Rd *	City of Los Angeles
7	Valley Circle Blvd & Roscoe Blvd	City of Los Angeles
8	Topanga Canyon Blvd & Roscoe Blvd	City of Los Angeles
9	Topanga Canyon Blvd & Sherman Way	City of Los Angeles
10	Valley Circle Blvd & Victory Blvd	City of Los Angeles
11	Topanga Canyon Blvd & Victory Blvd	City of Los Angeles
12	Topanga Canyon Blvd & Burbank Blvd	City of Los Angeles
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	City of Los Angeles
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	City of Los Angeles
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	City of Los Angeles
16	US-101 SB Ramps & Calabasas Rd	City of Los Angeles

** Unsignalized Intersection*

The list below defines the study roadway segments that were included in the traffic impact analysis. Roadway segments were included on minor local roadways and major routes to and from the freeway, to determine estimated percentage increases in traffic on all roadways of travel by Project trips and the potential effects of traffic operations characteristics on local two-lane roadways.

Seg ID	Segment	From	To	Jurisdiction
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	County of Ventura
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	County of Ventura / City of Simi Valley
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	County of Los Angeles / City of Los Angeles
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	City of Los Angeles
E	Valley Circle Boulevard	Plummer Street	Schumann Road	City of Los Angeles
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	City of Los Angeles
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	City of Los Angeles
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	City of Los Angeles
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	City of Los Angeles
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	City of Los Angeles
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	City of Los Angeles

Figure 1 illustrates the study area including the locations of the study intersections and roadway segments.



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Simi Valley Santa Susana Site Remediation EIR

Figure 1

Project Study Area

D. Impact Analysis Methodology

As defined by the City of Los Angeles Department of Transportation (LADOT) traffic study guidelines entitled *Traffic Study Policies and Procedures (August 2014),* significant impacts of a proposed project at an intersection must be mitigated to a level of insignificance. The guidelines are focused on development projects, where the impact potential is on-going for the life of a proposed development or facility. For this analysis, impacts are based on temporary construction-period impacts, but the same impact standards were applied.

In the sections that follow, the project-only and cumulative impacts of the construction of the proposed Project on study area roadways and intersections are discussed. The analysis is based on the impacts of Project remediation activities relative to the conditions at the study intersections and roadway segments during the remediation period, both peak periods and general operating periods. A post-Project construction (operations) analysis was not undertaken, as the SSFL site will not generate new trips after construction is complete, and therefore will not create significant traffic impacts.

Existing traffic volumes were defined by peak-period intersection turn movement counts conducted for this report. From the two-hour peak period volume totals, peak hour periods for each intersection and for each peak hour (AM and PM) were defined by the four highest consecutive 15-minute periods.

This methodology allows for the true peak hour of each analyzed intersection to be examined. The a.m. and p.m. peak hours for each study intersection (i.e., the four highest consecutive 15-minute periods within each of the two-hour peak periods of 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.) vary somewhat (though are generally 7:15 a.m. to 8:15 a.m. and 4:45 p.m. to 5:45 p.m.). For this reason, volumes across adjacent intersections may vary, but the analysis provides peak conditions for each single study intersection.

Major Project remediation activities are anticipated by DTSC to begin in the year 2018 and continue through the year 2032. The year 2032 was selected for the future analysis year, as it represents the highest potential year within the remediation timeline, providing an adequate amount of background traffic growth to define a conservative analysis baseline.

KOA analyzed the trip distribution, trip assignment, and intersection level of service calculations for the study area roadway network. Intersection analysis was performed using Circular 212 Planning or Critical Movement Analysis (CMA) methodology. The CMA methodology is based on the volume-to-capacity ratios for each approach movement (left turns, thru movements, right turns) and the sums of critical movements for the intersection. Critical movements are the highest-volume opposing and conflicting movements, such as the eastbound thru movement and the westbound left turn. These movements cannot proceed through the intersection at the same time, so one movement affects the other.

Based on the LADOT traffic guidelines, an intersection is generally considered impacted when project related increases the volume-to-capacity (V/C) ratio of the study intersection to the threshold. The following increases in peak hour V/C ratios are considered significant impacts:

Level of Service	**Final V/C***	**Project Related V/C increase**
C	< 0.700 – 0.800	Equal to or greater than 0.040
D	< 0.800– 0.900	Equal to or greater than 0.020
E and F	0.901 or more	Equal to or greater than 0.010

** Final V/C is the V/C ratio at an intersection, considering impacts from the project, ambient and related project growth, and without proposed traffic impact mitigations.*

For study locations within the City of Simi Valley, policies on traffic impacts used by this jurisdiction were applied to the analysis. The city applies a version of the impact standards defined in the County of Los Angeles Congestion Management Program. The modified impact standards are based on a change in V/C values of 0.02 or more, causing or worsening LOS E or F.

Appendix A provides further explanation of the level of service definitions based on volume-to-capacity ratios, which are the output values provided by the CMA and Circular 212 Planning methodologies, and for delay-based outputs provided by the Highway Capacity Manual methodology for signalized and unsignalized intersections.

Unsignalized intersection impacts were based on the causing or worsening of LOS E or F operations and the status of peak-hour traffic signal warrants. If a traffic signal was justified by the warrant analysis, and the intersection would operate at these LOS values, the Project impact was considered to be significant.

For roadway segment analysis, the applied per-lane capacities were based on extrapolations of Highway Capacity Manual methodology, using the general capacity guidelines of 10,000 daily vehicles and approximately 500 to 600 peak-hour vehicles.

2. Existing (2015) and Start of Remediation Year (2018) Conditions

This section documents existing (2015) traffic conditions in the study area and traffic conditions during the start of remediation year 2018. The discussion presented here is limited to the study intersections and the study roadway segments.

A. Roadway Characteristics

Table 1 provides a summary of the existing study area roadway characteristics. Within individual segments, some characteristics may vary. Figure 2 illustrates the lane configurations and intersection control at the study intersections.

B. Area Transit Service

The project study area is served by public transit bus lines operated by the County of Los Angeles Metropolitan Transportation Authority (Metro), Simi Valley Transit, and Santa Clarita Transit. Table 2 provides a description of the transit lines that serve the study area.

C. Study Intersection Operations Analysis

Traffic counts at the study intersections and on the roadway segments were conducted on Thursday, December 18, 2014, Tuesday, April 28, 2015, and on Thursday, June 18, 2015. An additional count was obtained from the LADOT on-line database, which was dated Wednesday, March 5, 2014. The traffic count data sheets are included in Appendix B of this report.

A level of service (LOS) analysis was conducted to determine peak hour conditions at the study intersections. The Critical Movement Analysis (CMA) methodology was applied to the analysis of study intersections in the City of Los Angeles, based on the policies and guidelines of that jurisdiction.

The Circular 212 Planning methodology was applied to the analysis of the County of Los Angeles and the City of Simi Valley study intersections, which is an acceptable methodology in those jurisdictions based on adopted traffic study policies and guidelines.

The Highway Capacity Manual (HCM) methodology was applied to the analysis of all unsignalized study intersections.

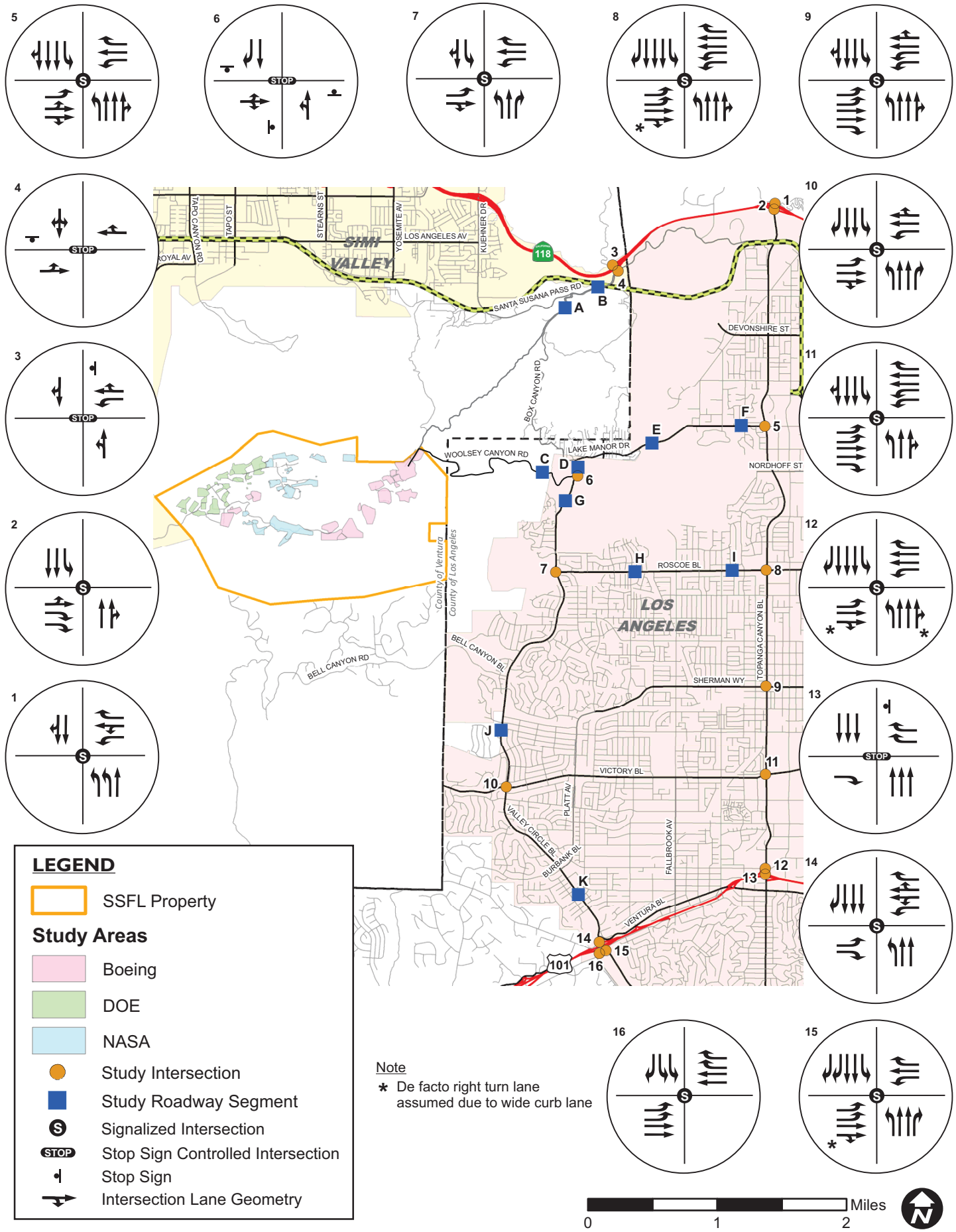
In addition, a supplemental *Start of Remediation Year (2018)* scenario was calculated by factoring the existing traffic counts by 1 percent per year from 2015 to 2018.

Table 3 provides the results of this analysis for both 2015 and 2018.

Table 1 – Existing Study Area Roadway System Characteristics

	Segment	From	To	Funtional Classification	Lanes		Median Type	Parking Restrictions		Speed Limit
					NB/EB	SB/WB		NB/EB	SB/WB	
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	Collector	1	1	DY	NP	NP	30
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	Minor Arterial	1	1	DY	NP	NP	30
C	Woolsey Canyon Road	Valley Cir Boulevard	Knapp Ranch Road	Local	1	1	DY	NP	NP	30
D	Valley Cir Boulevard	Box Canyon Road	Woolsey Canyon Road	Collector	1	1	DY	NP	NP	20
E	Valley Cir Boulevard	Plummer Street	Schumann Road	Collector	1	1	DY	NP	NP	40
F	Plummer Street	Valley Cir Boulevard	Farralone Avenue	Collector	1	1	2LT	NSAT	NSAT	35
G	Valley Cir Boulevard	Woolsey Canyon Road	Chatlake Drive	Collector	1	1	DY	NP	NP	35
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	Major Arterial	2	2	2LT	Permitted	Permitted, NS 2 a.m. to 6 a.m., NP	40
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	Major Arterial	2	2	2LT	Permitted	Permitted	40
J	Valley Cir Boulevard	Vanowen Street	Victory Boulevard	Major Arterial	2	2	2LT	NP	No Restrictions	45
K	Valley Cir Boulevard	Burbank Boulevard	US-101 Freeway	Major Arterial	2	2	2LT	NSAT, NS/NP 7a.m. to 5 p.m. School Days, Permitted	NSAT, NS/NP 7a.m. to 5 p.m. School Days, Permitted	35 / 40

NP - No Parking NS - No Stopping NSAT - No Stopping Anytime MP - Metered Parking DY - Double Yellow 2LT - Dual Left Turn RM - Raised Median LM - Landscaped Median



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Simi Valley Santa Susana Site Remediation EIR — Figure 2

Existing Lane Configurations and Intersection Control

Table 2 – Existing Study Area Transit Lines

Agency	Line	From	To	Via	Headway (minutes)
Metro	150	Canoga Park	Studio City	Topanga Canyon Boulevard / Sherman Way / Victory Boulevard	20 - 40 Minutes
Metro	152	North Hollywood	Woodland Hills	Roscoe Boulevard	8 - 20 Minutes
Metro	162	West Hills	Sun Valley	Sherman Way	20 - 45 Minutes
Metro	163	West Hills	Sun Valley	Sherman Way	11 - 24 Minutes
Metro	164	West Hills	Burbank	Valley Circle Boulevard / Victory Boulevard / Topanga Canyon Boulevard	10 - 30 Minutes
Metro	165	West Hills	Burbank	Valley Circle Boulevard / Vanowen Street / Topanga Canyon Boulevard	4 - 21 Minutes
Metro	166	Chatsworth	Sun Valley	Topanga Canyon Boulevard / Plummer Street	8 - 20 Minutes
Metro	169	Woodland Hills	Burbank	Victory Boulevard / Topanga Canyon Boulevard	60 Minutes
Metro	245	Chatsworth	Woodland Hills	Victory Boulevard / Topanga Canyon Boulevard	6 - 40 Minutes
Metro	353	North Hollywood	Woodland Hills	Roscoe Boulevard	20 - 25 Minutes
Metro	364	Chatsworth	Sun Valley	Topanga Canyon Boulevard / Plummer Street	14 - 20 Minutes
Metro	645	West Hills	Woodland Hills	Sherman Way / Valley Circle Boulevard / Topanga Canyon Boulevard	20 - 60 Minutes
Metro	750	Studio City	Woodland Hills	Topanga Canyon Bouelvard	10 - 20 Minutes
Simi Valley Transit	C	Downtown Los Angeles	Sun Valley	San Fernando Road	15 - 20 Minutes
Santa Clarita Transit	791	Downtown Los Angeles	Sun Valley	San Fernando Road	15 - 20 Minutes
LADOT Commuter Express	422	Downtown Los Angeles	Thousand Oaks	Topanga Canyon Boulevard	10 - 40 Minutes

Note: Headway = Frequency of Service (i.e., time between buses on route).

**Table 3 – Study Intersection Levels of Service –
Existing Conditions (2015) and Start of Remediation Year Conditions (2018)**

	Study Intersections	Existing (2015) Conditions				Start of Remediation Year (2018) Conditions			
		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour	
		V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS
1	Topanga Canyon Blvd & SR-118 WB Ramps	0.786	C	0.850	D	0.809	D	0.876	D
2	Topanga Canyon Blvd & SR-118 EB Ramps	1.086	**F**	1.056	**F**	1.122	**F**	1.091	**F**
3	Rocky Peak Rd & SR-118 WB Ramps *	10.4	B	10.5	B	10.5	B	10.6	B
4	Rocky Peak Rd & Santa Susana Pass Rd *	9.8	A	9.6	A	9.9	A	9.6	A
5	Topanga Canyon Blvd & Plummer St	0.699	B	0.631	B	0.723	C	0.653	B
6	Valley Circle Blvd & Woolsey Canyon Rd *	38.9	**E**	30.0	D	44.7	**E**	34.3	D
7	Valley Circle Blvd & Roscoe Blvd	0.701	C	0.511	A	0.725	C	0.529	A
8	Topanga Canyon Blvd & Roscoe Blvd	0.645	B	0.745	C	0.668	B	0.771	C
9	Topanga Canyon Blvd & Sherman Way	0.780	C	0.756	C	0.806	D	0.781	C
10	Valley Circle Blvd & Victory Blvd	0.675	B	0.494	A	0.699	B	0.512	A
11	Topanga Canyon Blvd & Victory Blvd	0.749	C	0.991	**E**	0.773	C	1.024	**F**
12	Topanga Canyon Blvd & Burbank Blvd	0.639	B	0.881	D	0.662	B	0.910	**E**
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	>100	**F**	>100	**F**	> 100	**F**	> 100	**F**
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	0.987	**E**	0.756	C	1.020	**F**	0.781	C
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	0.711	C	0.827	D	0.736	C	0.855	D
16	US-101 SB Ramps & Calabasas Rd	0.565	A	0.578	A	0.585	A	0.598	A

** Unsignalized Intersection*

The following study intersections operate at values of LOS E (nearing or at capacity) or LOS F (above capacity) for 2015 conditions:

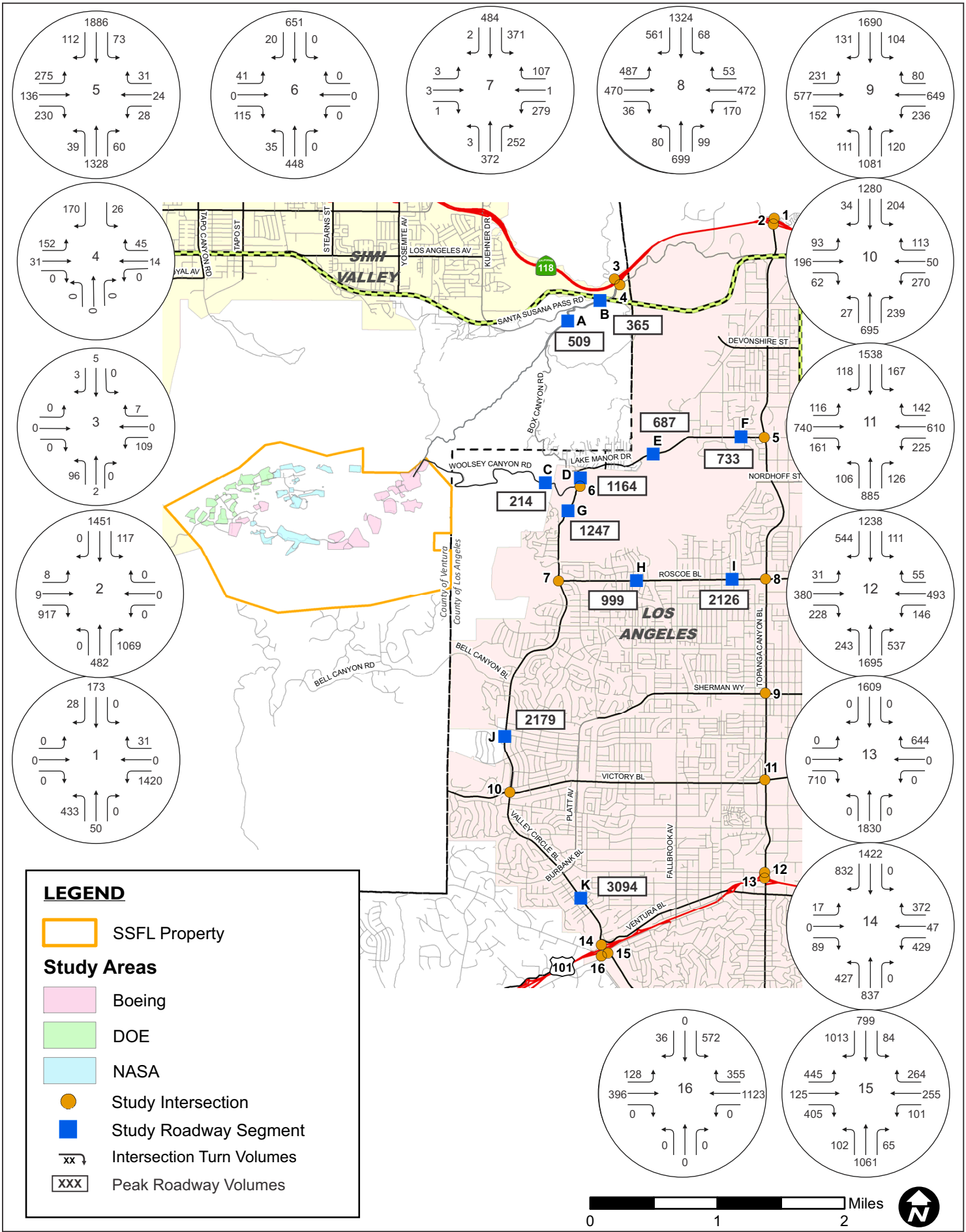
- Intersections #2 and #13 operate at LOS F in the both the a.m. and p.m. peak hours.
- Intersections #6 and #14 operate at LOS E in the a.m. peak hour.
- Intersection #11 operates at LOS E in the p.m. peak hour.

The following intersections operate at values of LOS E or LOS F for Start of Remediation Year 2018 conditions:

- Intersections #2 and #13 operate at LOS F in the both the a.m. and p.m. peak hours.
- Intersection #11 operates at LOS F in the p.m. peak hour.
- Intersection #14 operates at LOS F in the a.m. peak hour.
- Intersection #6 operates at LOS E in the a.m. peak hour.
- Intersection #12 operates at LOS E in the p.m. peak hour.

The existing conditions scenario LOS calculation worksheets for the study intersections are provided in Appendix C of this report.

Figure 3 and Figure 4 illustrate the existing a.m. and p.m. peak hour traffic volumes at the study intersections for existing 2015 conditions. Figure 5 and Figure 6 illustrate 2018 conditions.

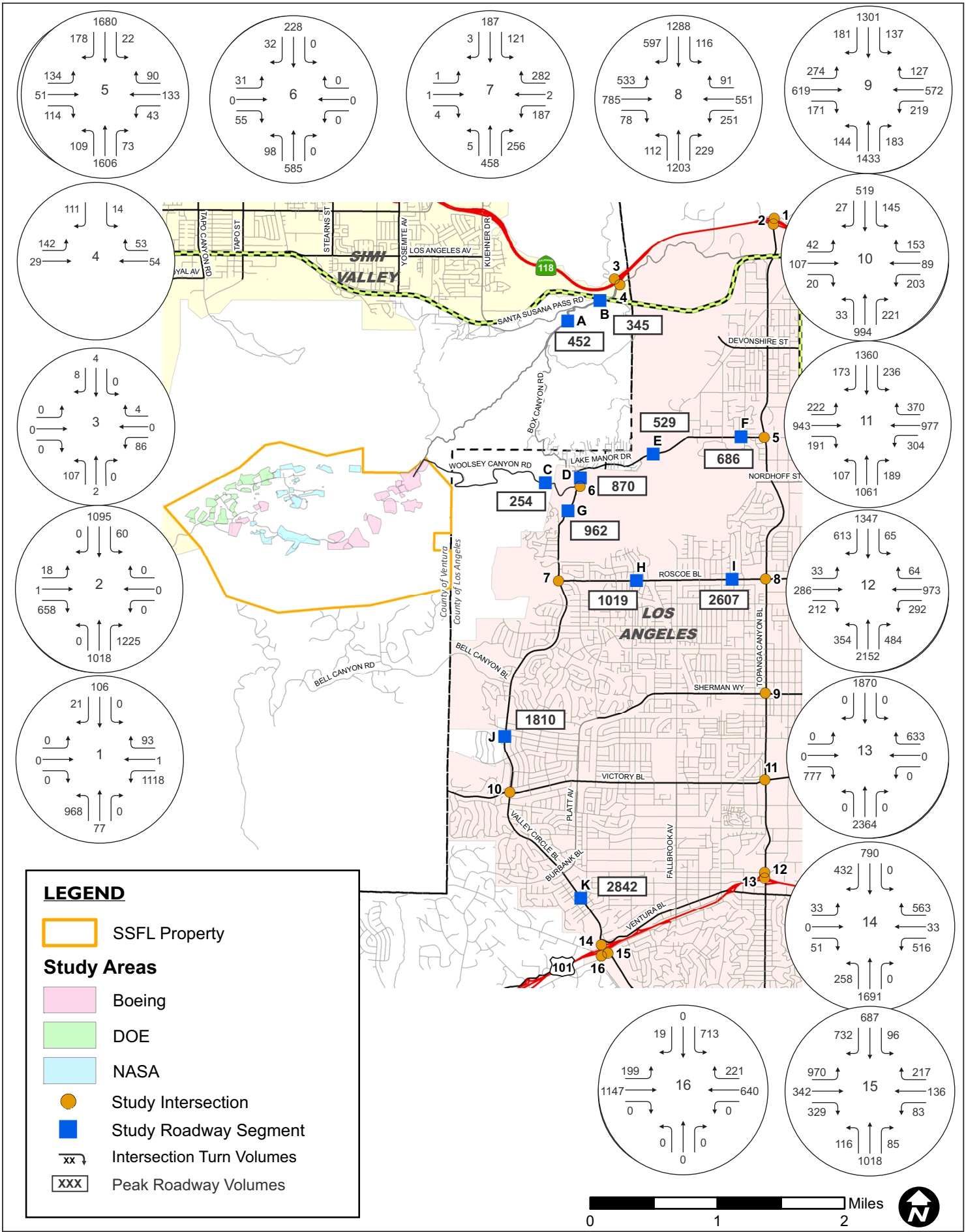


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Simi Valley Santa Susana Site Remediation EIR

Figure 3

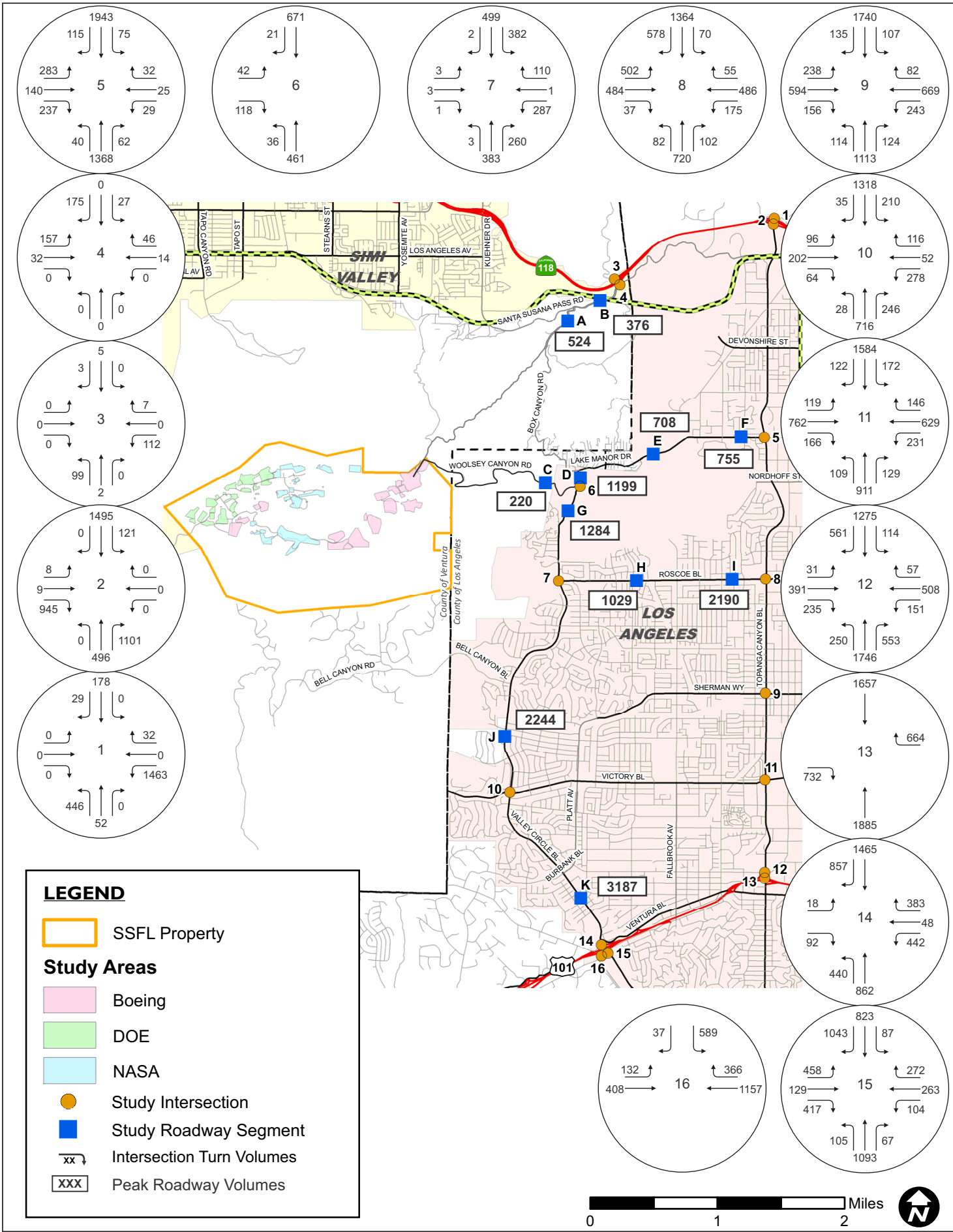
Existing Year 2015 - AM Peak Hour Traffic Volumes



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Simi Valley Santa Susana Site Remediation EIR — Figure 4

Existing Year 2015 - PM Peak Hour Traffic Volumes

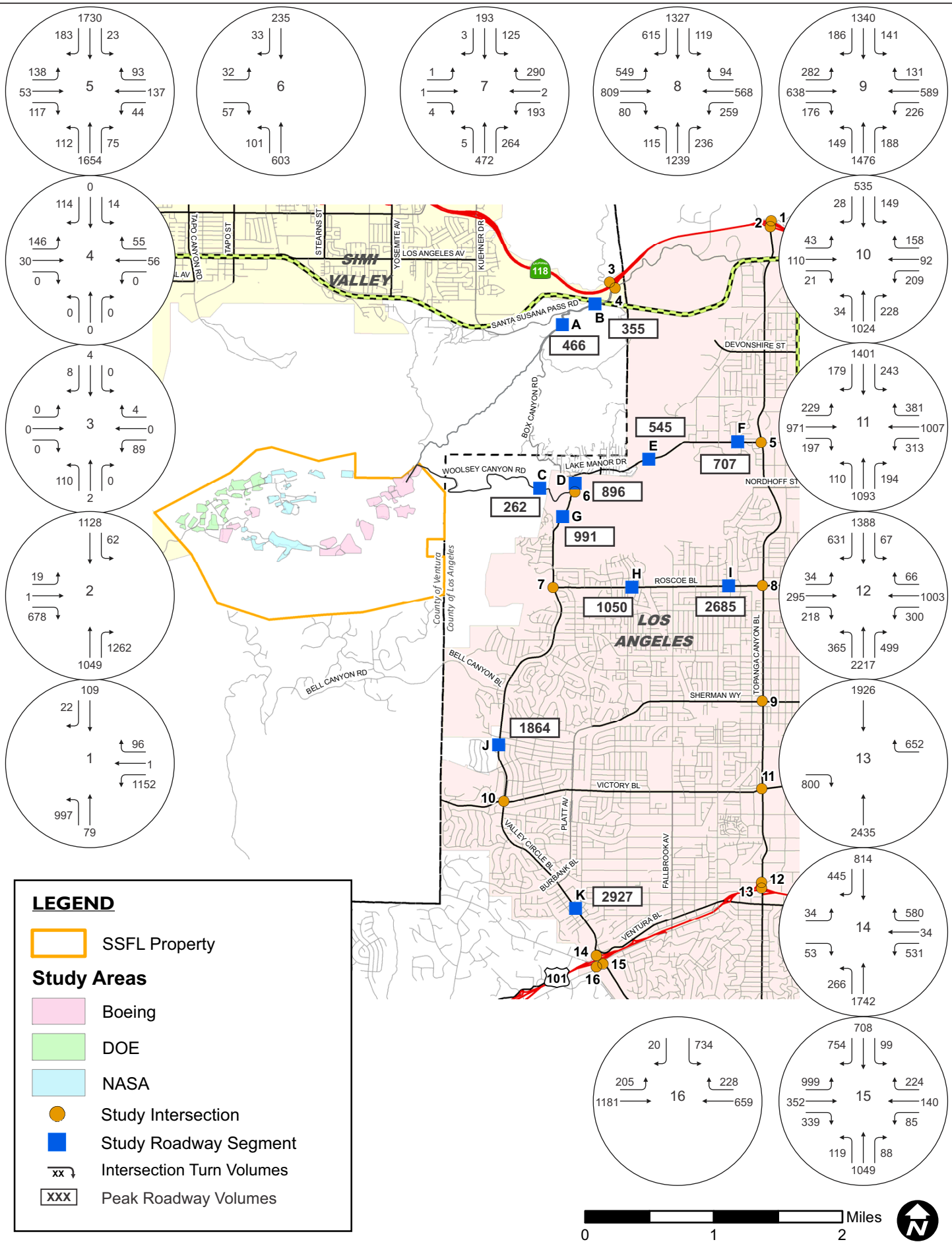


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Simi Valley Santa Susana Site Remediation EIR

Figure 5

Existing Year 2018 - AM Peak Hour Traffic Volumes



LEGEND

- SSFL Property

Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XX Intersection Turn Volumes
- XXX Peak Roadway Volumes

0 1 2 Miles

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Simi Valley Santa Susana Site Remediation EIR

Figure 6

Existing Year 2018 - PM Peak Hour Traffic Volumes

D. Study Roadway Segment Operations Analysis

An existing 2015 and start of remediation year 2018 level of service analysis was conducted for peak hour and daily traffic conditions at the study roadway segments.

Table 4 summarizes the results of the peak hour analysis for the study roadway segments. The following study roadway segments operate at values of LOS E (nearing or at capacity) or LOS F (above capacity) under both scenarios:

- Segment D operates at LOS F during the a.m. peak hour
- Segment G operates at LOS F during the a.m. peak hour and LOS E during the p.m. peak hour
- Segment I operates at LOS F during the p.m. peak hour
- Segment K operates at LOS F during both the a.m. and p.m. peak hours.

Table 4 – Peak Hour Study Roadway Segment Levels of Service – Existing Conditions (2015) and Start of Remediation Year (2018) Conditions

Seg ID	Segment	From	To	Peak Period	# of Lanes *	Capacity	Existing 2015 Peak Volumes			Start of Remediation Year 2018 Peak Volumes		
							Volumes	V/C	LOS	Volumes	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	AM	2	1,050	509	0.485	A	524	0.499	A
				PM			452	0.430	A	466	0.443	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	AM	2	1,050	365	0.348	A	376	0.358	A
				PM			345	0.329	A	355	0.338	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	AM	2	1,050	214	0.204	A	220	0.210	A
				PM			254	0.242	A	262	0.249	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	AM	2	1,050	1,164	1.109	**F**	1,199	1.142	**F**
				PM			870	0.829	D	896	0.853	D
E	Valley Circle Boulevard	Plummer Street	Schumann Road	AM	2	1,050	687	0.654	B	708	0.674	B
				PM			529	0.504	A	545	0.519	A
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	AM	2	1,050	733	0.698	B	755	0.719	C
				PM			686	0.653	B	707	0.673	B
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	AM	2	1,050	1,247	1.188	**F**	1,284	1.223	**F**
				PM			962	0.916	**E**	991	0.944	**E**
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	AM	4	2,500	999	0.400	A	1,029	0.412	A
				PM			1,019	0.408	A	1,050	0.420	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	AM	4	2,500	2,126	0.850	D	2,190	0.876	D
				PM			2,607	1.043	**F**	2,685	1.074	**F**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	AM	4	2,500	2,179	0.872	D	2,244	0.898	D
				PM			1,810	0.724	C	1,864	0.746	C
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	AM	4	2,500	3,094	1.238	**F**	3,187	1.275	**F**
				PM			2,842	1.137	**F**	2,927	1.171	**F**

** Based on most constricted segment of overall roadway.*

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx 500 to 600 peak-hour vehicles)

Figure 3, Figure 4, Figure 5, and Figure 6 introduced previously, illustrate the existing a.m. and p.m. peak hour traffic volumes at the study roadway segments.

Table 5 summarizes the results of the daily operations analysis for the study roadway segments. As shown, all of the study roadway segments operate at LOS values of D or better, and none operate at LOS E or F, except for the *Start of Remediation Year 2018* scenario, where Valley Circle Boulevard, between Burbank Boulevard and US-101 Freeway is operating at LOS E.

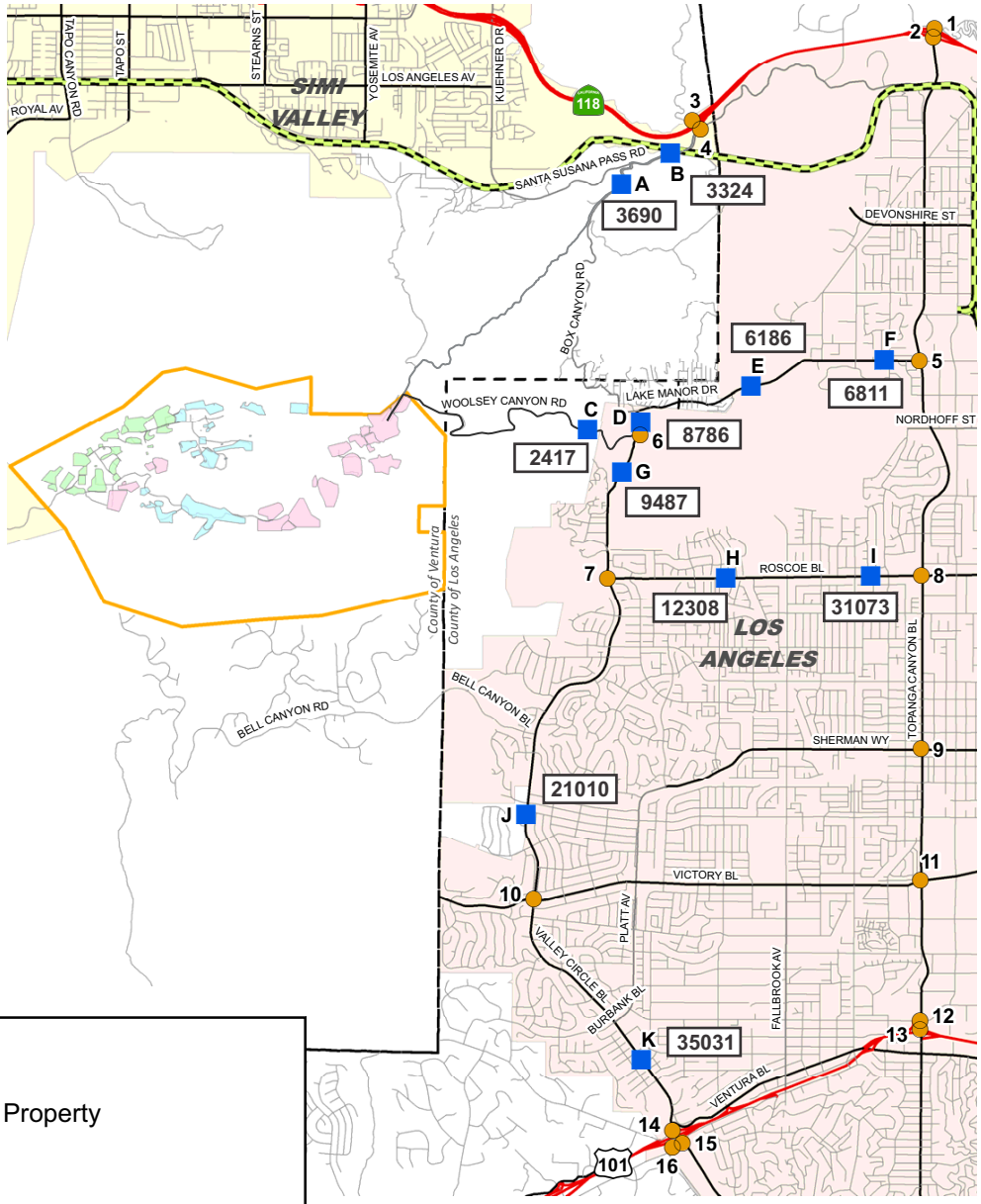
The peak hour analysis provided earlier in Table 4 is a more realistic predictor of driver perception and feel of roadway operations, however. The daily analysis provides a general overview of vehicles carried on a roadway over a 24-hour period, including peak and non-peak periods.

Table 5 – Daily Study Roadway Segment Levels of Service – Existing Conditions (2015) and Start of Remediation Year (2018) Conditions

Seg ID	Segment	From	To	# of Lanes	Capacity	Existing 2015 Daily Volumes			Start of Remediation Year (2018) Volumes		
						Volume	V/C	LOS	Volume	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	2	15,000	3,690	0.246	A	3,801	0.253	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	2	15,000	3,324	0.222	A	3,424	0.228	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	2	15,000	2,417	0.161	A	2,490	0.166	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	2	15,000	8,786	0.586	A	9,050	0.603	B
E	Valley Circle Boulevard	Plummer Street	Schumann Road	2	15,000	6,186	0.412	A	6,372	0.425	A
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	2	15,000	6,811	0.454	A	7,015	0.468	A
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	2	15,000	9,487	0.632	B	9,772	0.651	B
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	4	40,000	12,308	0.308	A	12,677	0.317	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	4	40,000	31,073	0.777	C	32,005	0.800	D
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	4	40,000	21,010	0.525	A	21,640	0.541	A
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	4	40,000	35,031	0.876	D	36,082	0.902	E

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

Figure 7 illustrates the existing 2015 weekday daily volumes on the study roadway segments. Figure 8 illustrates the Start of Remediation Year 2018 weekday daily volumes.



LEGEND

- SSFL Property

Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XXX Daily Roadway Volumes

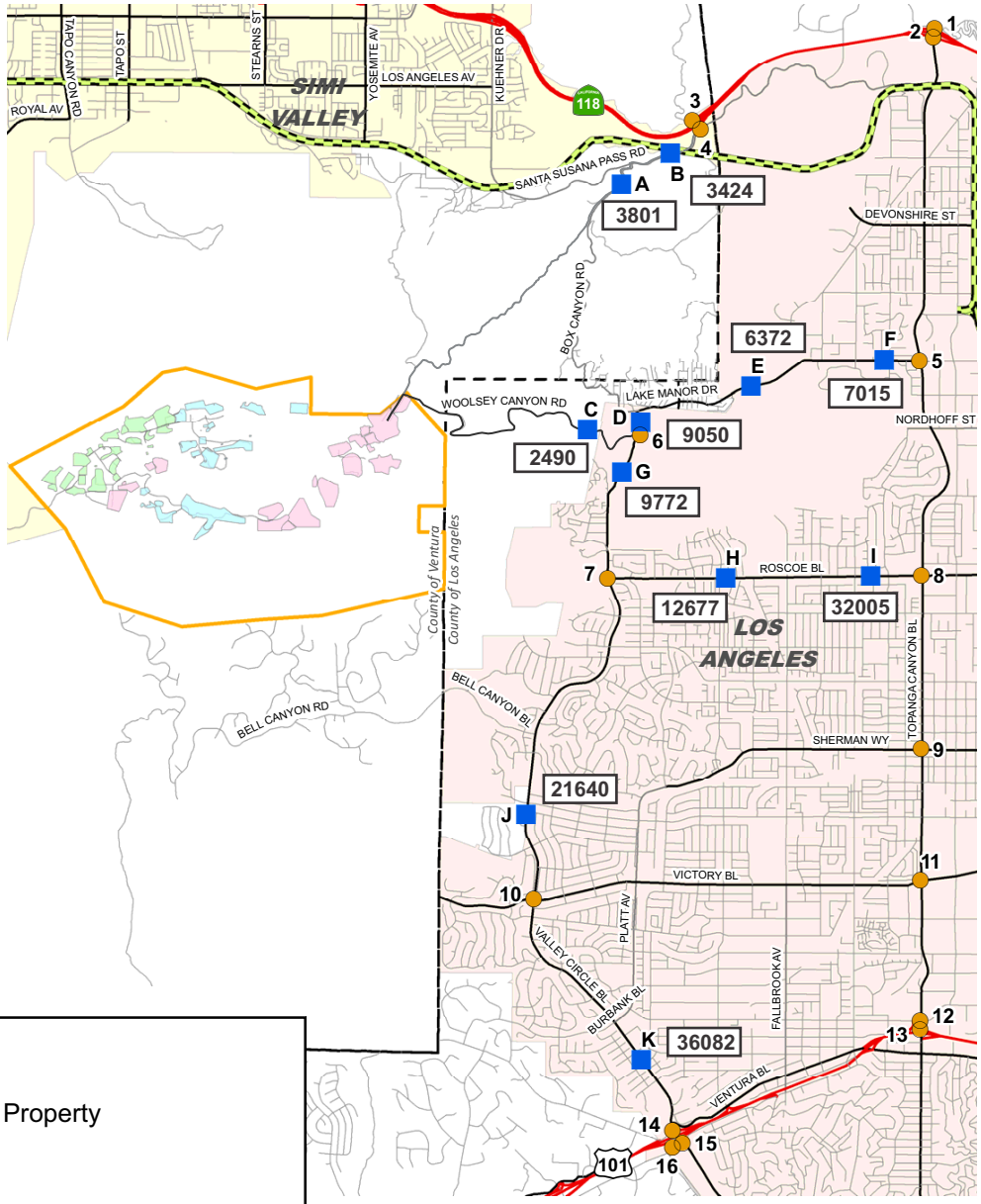
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Simi Valley Santa Susana Site Remediation EIR

Figure 7

Existing Year 2015 - Daily Roadway Segment Volumes



LEGEND

- SSFL Property

Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XXX Daily Roadway Volumes

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Simi Valley Santa Susana Site Remediation EIR — Figure 8

Existing Year 2018 - Daily Roadway Segment Volumes

3. Project Remediation Trips

This section focuses on the definition of hauling trucks and employee vehicle trips during the peak period of Project remediation, along with the distribution and assignment of those trips to the study area roadway network. For the project remediation, 96 hauling trucks and 250 employee-vehicle trips were analyzed.

A. Project Trip Generation Methodology

Project trip generation calculations included haul truck trip estimates and employee vehicle trips. The trip generation totals were determined based on the most intense period of remediation activity for the project. Truck volumes were multiplied by a factor of 2.5 to estimate the number of passenger car equivalent trips, consistent with the Southern California Association of Governments (SCAG) *Heavy Duty Truck Model* analysis and other truck studies in the region.

The analysis summarized within this report was conducted at a planning-level of detail, used for the purposes of determining traffic impacts during the Project remediation period. Empirical data for use in calculating peak hour and daily trip generation rates for construction sites is not generally available. Therefore, the methodology provided here is intended to define trip generation forecasts that represent a worst-case scenario.

B. Project Trip Generation

The maximum number of employees on site per day during the peak remediation period would be 250 employees and the typical daily truck trip activity during this peak period would be 96 round trips per day. The total number of trips analyzed represents the highest combined trips generated by both remediation employees and trucks.

For purposes of peak hour trip generation estimates, it was assumed that daily remediation activities will occur in a single eight-hour shift that generally begins prior to the a.m. peak period and is generally complete prior to the p.m. peak period.

The weekday peak hour trip generation calculations for the Project remediation activities are provided in Table 6. Significant site remediation activities were not assumed to occur on weekends.

The total daily trips in the table represent inbound and outbound trips by the remediation employees. Peak hour trips for employees were based on inbound and outbound flows, but multiplied by a factor of 0.50, to represent the assumed 50 percent overlap of employee travel with the peak hour.

Daily truck trips are based on 96 round-trip truck trips per day, multiplied by two for one-way trips, and then multiplied by the applied PCE factor of 2.5, for a total of 480 one-way PCE-adjusted truck trips.

Peak-hour truck trips were based on 12 round-trips overlapping the peak hours based on an eight-hour work shift, multiplied by two for one-way trips and then multiplied by the applied PCE factor of 2.5, for a total of 60 one-way peak-hour PCE-adjusted truck trips.

Table 6 – Project Remediation Passenger Car Equivalent Trip Generation

TRIP GENERATION	AVERAGE DAILY TRIPS			AM PEAK HOUR						PM PEAK HOUR					
				Truck Trips*		Employee Trips		Total Trips		Truck Trips*		Employee Trips		Total Trips	
	Trucks*	Employee	Total	In	Out	In	Out	In	Out	In	Out	In	Out	In	Out
Employees	0	500	500	0	0	125	0	125	0	0	0	0	125	0	125
Haul Trucks	480	0	480	30	30	0	0	30	30	30	30	0	0	30	30
TOTAL TRIPS	**480**	**500**	**980**	**30**	**30**	**125**	**0**	**155**	**30**	**30**	**30**	**0**	**125**	**30**	**155**

** Truck trips are one-way trips, adjusted by a Passenger Car Equivalency (PCE) factor of 2.5 (e.g., 96 daily truck round trips times 2, times 2.5 = 480 daily PCE one-way trips)*

Notes:

Employees – Inputs were 250 for the average peak day of remediation. 50% of the employees would travel to and from the site during peak hours.

Trucks - During the peak of remediation, 96 round trips by trucks would be generated. Peak hour was based on total one-way truck volume PCE divided by an eight-hour shift.

The totals within the bottom row of Table 6 indicate that, during the peak period of remediation activities, the Project would generate a daily total of 980 passenger car equivalent trips, with 185 trips occurring during both the a.m. and p.m. peak hours (155 inbound and 30 outbound in the a.m. peak, and 30 inbound and 155 outbound in the p.m. peak). The combined numbers here are higher in the directional peak of employee travel (high inbound in morning, high outbound in evening).

The total analyzed Project trip distribution is illustrated on Figure 9.

C. Project Trip Distribution

Based on project characteristics, the best routes between the site access points and the nearby SR-118/Topanga Canyon Boulevard interchanges to the north, and the US-101 Freeway/Valley Circle Boulevard and US-101 Freeway/Topanga Canyon Boulevard interchanges to the south, were included in the Project truck trip distribution pattern, as illustrated on Figure 1.

Employee vehicle trip distribution pattern was based on the local roadway network, in addition to the locations of the freeway interchanges including the SR-118/Rocky Peak Road interchange and regional east-west arterials.

The construction truck and employee trip distribution was calculated based on the detailed patterns described below.

<u>Project Remediation Haul Trucks - Overall Breakdown:</u>

- 70 percent of trips would originate from or be destined for points within or beyond the SR-118 corridor to the east/north. This corridor provides the best connections to the I-5 corridor to reach central and northern areas of California, and the best connection to the I-210 corridor at its eastern terminus, where connections can be made to multiple area north-south freeways including the I-15 freeway, providing access to Nevada, Idaho, and other areas.

- 30 percent of trips would originate from or be destined for points within or beyond the US-101 corridor to the east/south. This corridor provides access to the SR-134/I-210 corridor for points to the east, and also to Los Angeles Basin with multiple freeway connections.

Project Remediation Haul Trucks - Local Roadways Breakdown (from Woolsey Canyon Road):

- 60 percent of truck trips would use the Valley Circle Boulevard/Roscoe Boulevard corridor to reach Topanga Canyon Boulevard and the SR-118 interchange to the north. Valley Circle Boulevard is a two-lane roadway with one all-way stop-controlled intersection. Roscoe Boulevard is a two- to four-lane roadway with seven signalized intersections (including at Valley Circle Boulevard and at Topanga Canyon Boulevard), but no all-way stop-controlled intersections. This route was therefore considered the best route for traffic traveling to and from the SR-118, providing little delay and more maneuverability for trucks and vehicles.

- 10 percent of truck trips would use the Lake Manor Drive/Valley Circle Boulevard/Plummer Street corridor to reach Topanga Canyon Boulevard and the SR-118 interchange to the north. This route would be the most direct route to SR-118 (4.8 miles compared to 7.5 miles via the Roscoe Boulevard route), but is primarily a two-lane road with four all-way stop-controlled intersections, and two signalized intersections (including at Topanga Canyon Boulevard). Therefore, this would not be the most ideal route for trucks in terms of travel time, but considering the shorter travel distance, the analysis assumes some truck drivers would choose this route.

- The potentially shorter travel times on the Lake Manor Drive/Valley Circle Boulevard/Plummer Street corridor may dictate the occasional use of this route. Therefore, this analysis assumes that some trucks would use this route, which ensures that potential impacts would not be understated. At 10% of total truck trips, this would result in no more than two trucks per hour, and this distribution was included to ensure that potential impacts would not be understated.

- 20 percent of truck trips would use Valley Circle Boulevard to reach the US-101 to the south. This is the most direct route to the US-101, and most of the roadway has four travel lanes, although some all-way stop sign-controlled intersections are present.

- 10 percent of truck trips would use Roscoe Boulevard and Topanga Canyon Boulevard to reach the US-101 corridor. Both routes have multiple lanes for the most part, but the route is slightly less direct for trips to and from the US-101. As stated above, at 10% of total truck trips, this would result in no more than two trucks per hour, and this distribution was included to ensure that potential impacts would not be understated.

Project Employee Vehicle Trips – Overall Breakdown

- Employee trips were assumed to follow general population patterns, with fairly equal proportions coming to and from the US-101 freeway and the SR-118 freeway.

- 42 percent of employee trips were assumed to originate from or be destined to the SR-118 freeway, with 14 percent to/from the west and 28 percent to/from the east.

- 43 percent of employee trips were assumed to originate from or be destined to the US-101 freeway, with 21 percent to/from the west and 22 percent to/from the east.

- 15 percent of employee trips were assumed to originate from or be destined to local areas east of Topanga Canyon Boulevard (described below).

Project Employee Vehicle Trips – Local Roadways Breakdown:

- 12 percent of employee trips were assumed to use the curvy and two-lane Box Canyon Road, a slower but direct route to/from the SR-118

- 25 percent of employee trips would use the two-lane Lake Manor Drive/Valley Circle Boulevard/Plummer Street corridor to reach Topanga Canyon Boulevard and the SR-118 interchange.

- 25 percent of employee trips would use the primarily four-lane Roscoe Boulevard corridor to reach Topanga Canyon Boulevard and both the SR-118 and US-101 interchanges.

- 32 percent of employee trips would use the four-lane Valley Circle Boulevard to reach the US-101 corridor.

- 5 percent of employee trips would come to/from the Roscoe Boulevard corridor to the east of Topanga Canyon Boulevard.

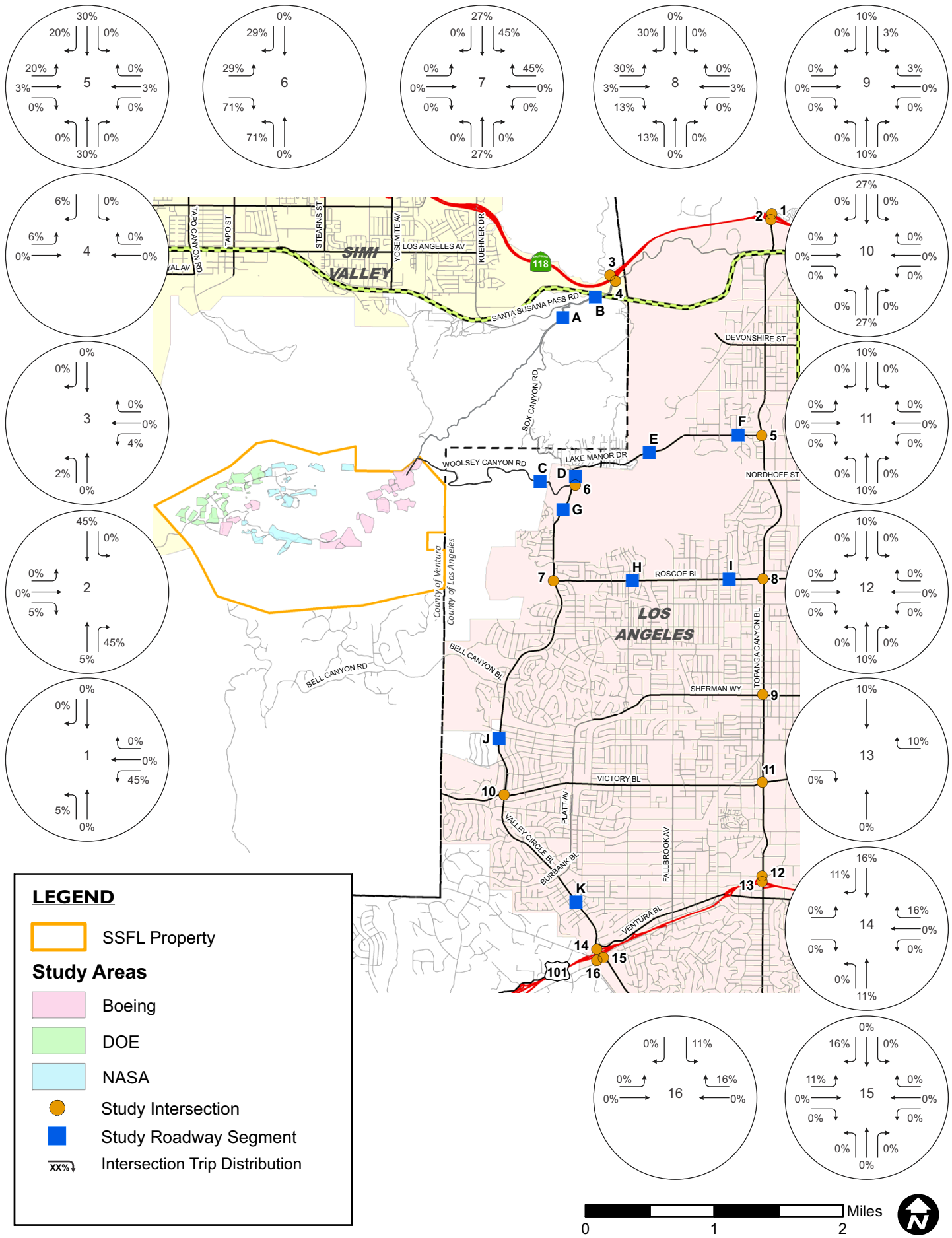
- 5 percent of employee trips would come to/from the Sherman Way corridor to the east of Topanga Canyon Boulevard.

- 5 percent of employee trips would come to/from the Plummer Street corridor to the east of Topanga Canyon Boulevard.

- 11 percent of employee trips would use Topanga Canyon Boulevard to/from the US-101.

The total analyzed Project trip distribution is illustrated on Figure 9.

The overall assignment of the Project trips (new net trips generated by project remediation activities) to the study area, including both employee vehicles and hauling trucks, is illustrated on Figure 10 (a.m. peak) and Figure 11 (p.m. peak).



LEGEND

- SSFL Property

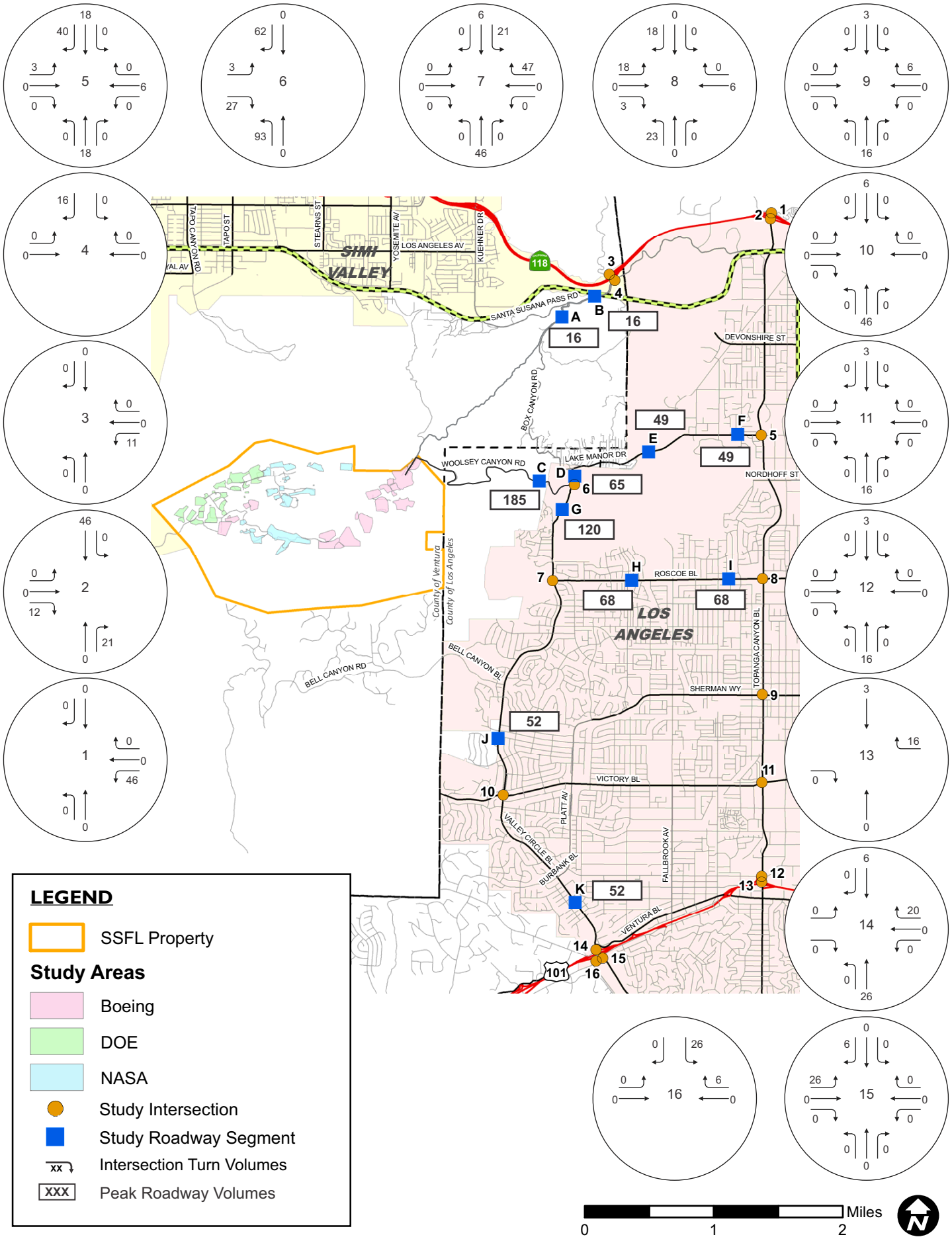
Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XX% Intersection Trip Distribution

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Simi Valley Santa Susana Site Remediation EIR — Figure 9

Project Remediation (Vehicles + Trucks) Peak Hour Trip Distribution



LEGEND

- SSFL Property

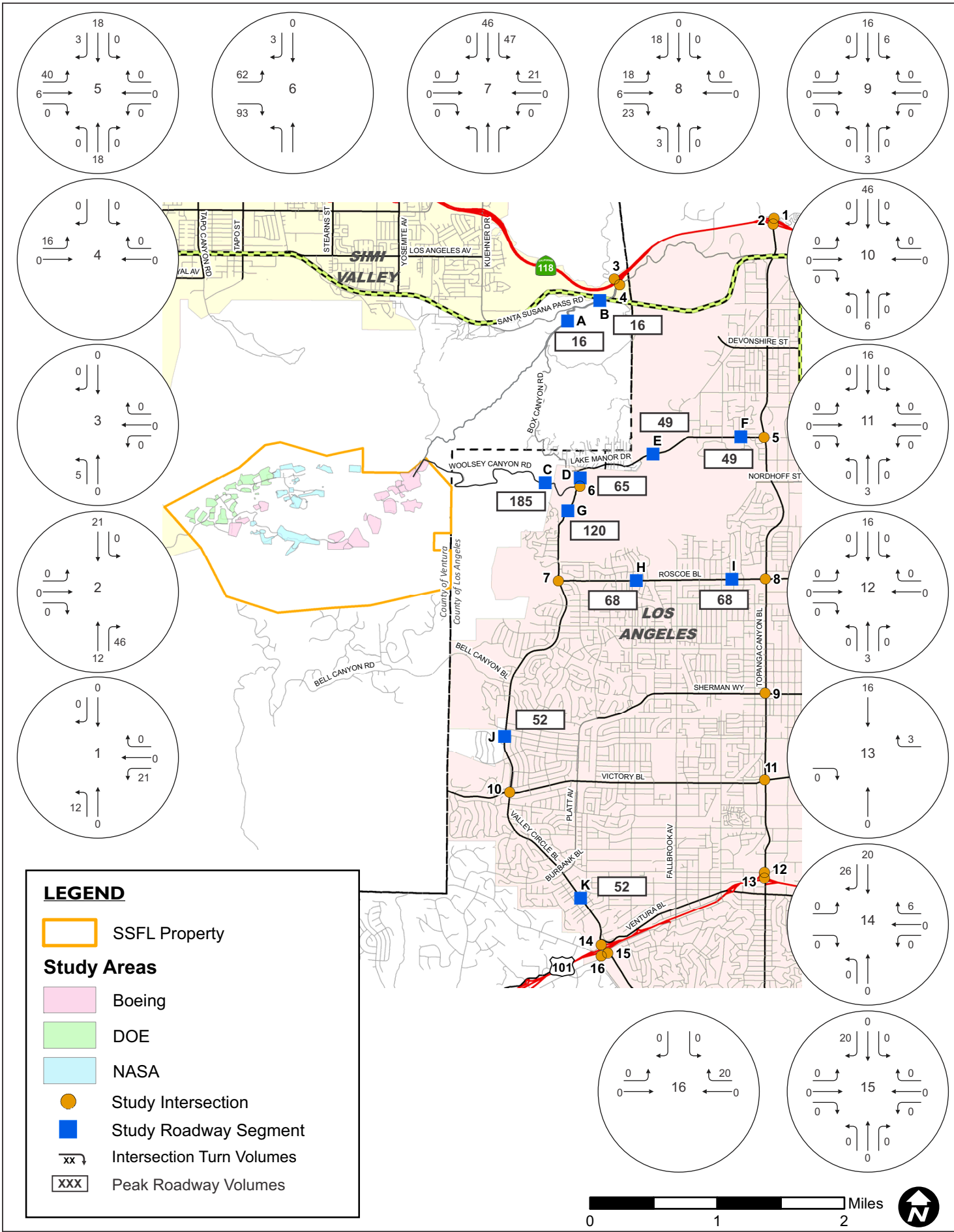
Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XX Intersection Turn Volumes
- XXX Peak Roadway Volumes

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Simi Valley Santa Susana Site Remediation EIR — Figure 10

Project Remediation (Vehicles + Trucks) AM Peak Hour Trip Assignment - Net Project Traffic



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Simi Valley Santa Susana Site Remediation EIR — Figure 11

Project Remediation (Vehicles + Trucks) PM Peak Hour Trip Assignment - Net Project Traffic

4. Start of Remediation Year (2018) plus-Project Conditions

This section documents the 2018 traffic conditions at the study intersections with the addition of Project-generated traffic. This scenario was analyzed in order to comply with rulings in the *Sunnyvale* and *Expo Line* CEQA court cases.

A. Study Intersection Operations Analysis

Traffic volumes for these conditions were derived by adding the net project trips to the traffic volumes during the start of remediation year. The start of remediation 2018 plus-Project traffic volumes are illustrated on Figure 12 (a.m. peak hour) and Figure 13 (p.m. peak hour).

As with the Existing Conditions scenario, 2018 values were calculated to determine level of service with Project traffic.

Table 7 summarizes the resulting V/C (for signalized intersections) and delay (for unsignalized intersections) and the associated LOS values at the study intersections for the start of remediation year plus- Project conditions. Level of service worksheets for that scenario are provided in Appendix C of this report.

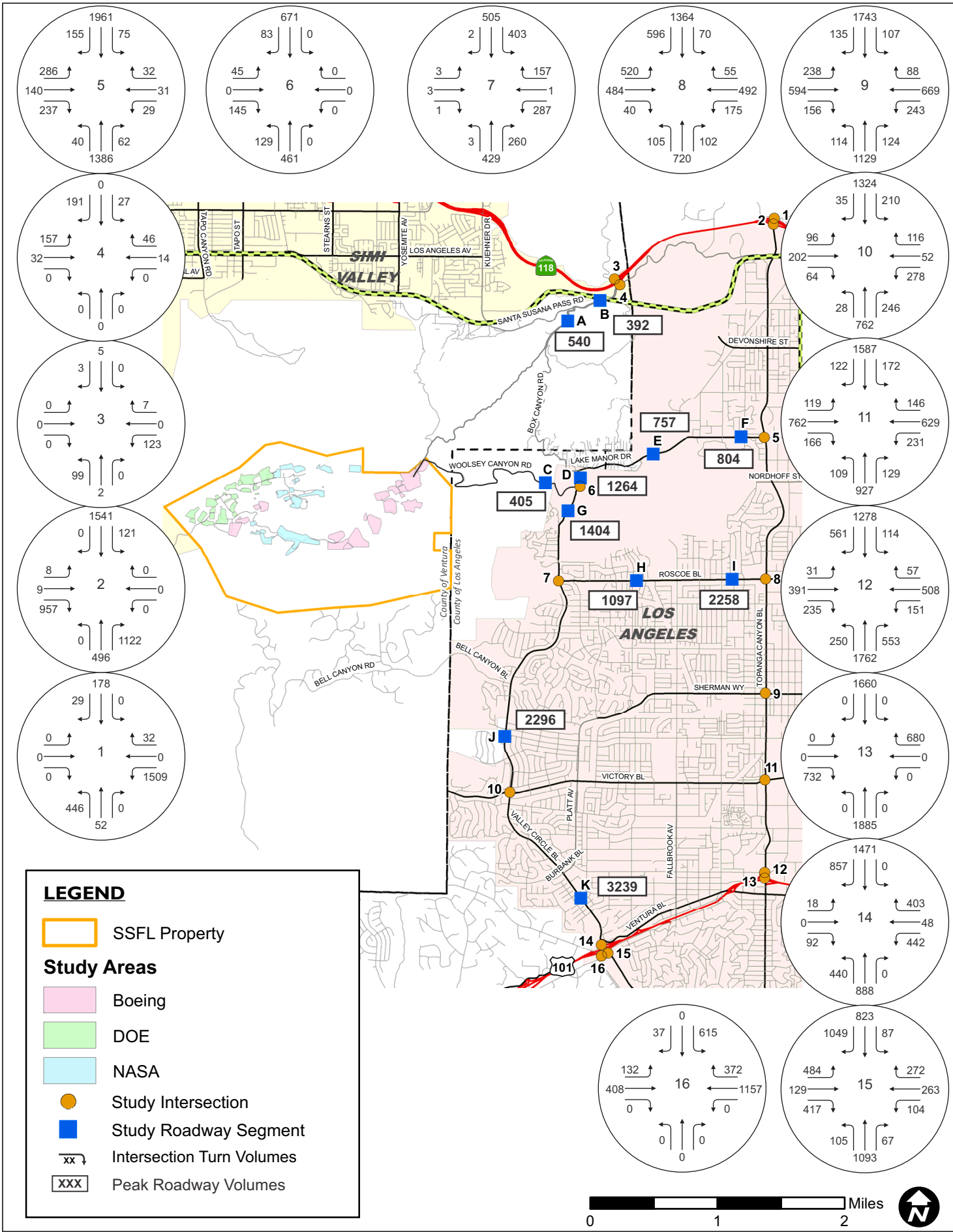
Table 7 – Study Intersection Levels of Service –
Start of Remediation Year 2018 with Project Remediation Conditions

	Study Intersections	Start of Remediation Year (2018) Plus Project			
		AM Peak Hour		PM Peak Hour	
		V/C or Delay	LOS	V/C or Delay	LOS
1	Topanga Canyon Blvd & SR-118 WB Ramps	0.827	D	0.888	D
2	Topanga Canyon Blvd & SR-118 EB Ramps	1.141	**F**	1.123	**F**
3	Rocky Peak Rd & SR-118 WB Ramps *	10.6	B	10.7	B
4	Rocky Peak Rd & Santa Susana Pass Rd *	10.0	A	9.7	A
5	Topanga Canyon Blvd & Plummer St	0.739	C	0.662	B
6	Valley Circle Blvd & Woolsey Canyon Rd *	58.0	**F**	57.3	**F**
7	Valley Circle Blvd & Roscoe Blvd	0.761	C	0.564	A
8	Topanga Canyon Blvd & Roscoe Blvd	0.694	B	0.778	C
9	Topanga Canyon Blvd & Sherman Way	0.809	D	0.786	C
10	Valley Circle Blvd & Victory Blvd	0.701	C	0.513	A
11	Topanga Canyon Blvd & Victory Blvd	0.779	C	1.024	**F**
12	Topanga Canyon Blvd & Burbank Blvd	0.662	B	0.910	**E**
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	> 100	**F**	> 100	**F**
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	1.020	**F**	0.784	C
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	0.746	C	0.855	D
16	US-101 SB Ramps & Calabasas Rd	0.595	A	0.598	A

** Unsignalized Intersection*

The following intersections operate at values of LOS E or LOS F for the start of remediation year 2018 conditions:

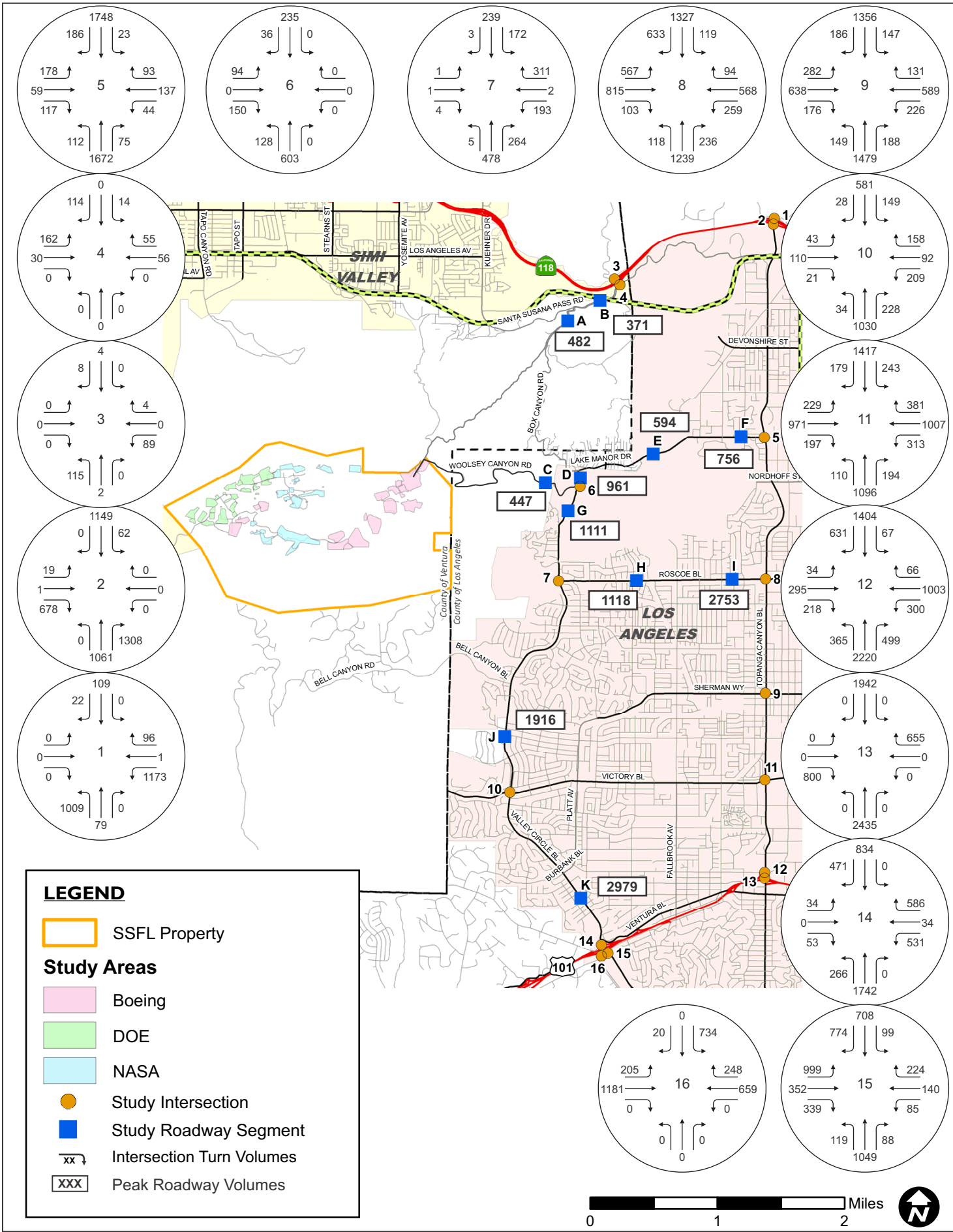
- Intersections #2, #6, and #13 operate at LOS F in the both the a.m. and p.m. peak hours.
- Intersection #11 operates at LOS F in the p.m. peak hour.
- Intersection #14 operates at LOS F in the a.m. peak hour.
- Intersection #12 operates at LOS E in the p.m. peak hour.



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Simi Valley Santa Susana Site Remediation EIR — Figure 12

Start of Remediation Year 2018 plus Project - AM Peak Hour Traffic Volumes



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Simi Valley Santa Susana Site Remediation EIR — Figure 13

Start of Remediation Year 2018 plus Project - PM Peak Hour Traffic Volumes

B. Study Roadway Segment Operations Analysis

A start of remediation year 2018 plus- Project level of service analysis was conducted for peak hour and daily traffic conditions at the study roadway segments.

Table 8 summarizes the results of the peak hour analysis for the study roadway segments under start of remediation year 2018 plus-Project conditions. The following study roadway segments operate at values of LOS E (nearing or at capacity) or LOS F (above capacity):

- Segment D operates at LOS F during the a.m. peak hour and LOS E during the p.m. peak hour
- Segment G operates at LOS F during both the a.m. and p.m. peak hours
- Segment I operates at LOS E during the a.m. peak hour and LOS F during the p.m. peak hour
- Segment J operates at LOS E during the a.m. peak hour
- Segment K operates at LOS F during both the a.m. and p.m. peak hours.

Table 8 – Peak Hour Study Roadway Segment
Levels of Service – Start of Remediation Year 2018 plus-Project

Seg ID	Segment	From	To	Peak Period	# of Lanes *	Capacity	Start of Remediation Year 2018 Peak Volumes			Start of Remediation Year 2018 + Project			
							Volumes	V/C	LOS	Project Only	Volumes	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	AM	2	1,050	524	0.499	A	16	540	0.515	A
				PM			466	0.443	A	16	482	0.459	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	AM	2	1,050	376	0.358	A	16	392	0.373	A
				PM			355	0.338	A	16	371	0.354	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	AM	2	1,050	220	0.210	A	185	405	0.386	A
				PM			262	0.249	A	185	447	0.425	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	AM	2	1,050	1,199	1.142	**F**	65	1,264	1.204	**F**
				PM			896	0.853	D	65	961	0.915	**E**
E	Valley Circle Boulevard	Plummer Street	Schumann Road	AM	2	1,050	708	0.674	B	49	757	0.721	C
				PM			545	0.519	A	49	594	0.566	A
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	AM	2	1,050	755	0.719	C	49	804	0.766	C
				PM			707	0.673	B	49	756	0.720	C
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	AM	2	1,050	1,284	1.223	**F**	120	1,404	1.338	**F**
				PM			991	0.944	**E**	120	1,111	1.058	**F**
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	AM	4	2,500	1,029	0.412	A	68	1,097	0.439	A
				PM			1,050	0.420	A	68	1,118	0.447	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	AM	4	2,500	2,190	0.876	D	68	2,258	0.903	**E**
				PM			2,685	1.074	**F**	68	2,753	1.101	**F**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	AM	4	2,500	2,244	0.898	D	52	2,296	0.919	**E**
				PM			1,864	0.746	C	52	1,916	0.767	C
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	AM	4	2,500	3,187	1.275	**F**	52	3,239	1.296	**F**
				PM			2,927	1.171	**F**	52	2,979	1.192	**F**

** Based on most constricted segment of overall roadway.*

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx 500 to 600 peak-hour vehicles)

Figure 12 and Figure 13, introduced previously, illustrate the start of remediation year 2018 plus-Project a.m. and p.m. peak hour traffic volumes at the study roadway segments.

Table 9 summarizes the results of the daily operations for the start of remediation year 2018 plus-Project analysis for the study roadway segments. As shown, all of the study roadway segments operate at LOS values of D or better, and none operate at LOS E or F.

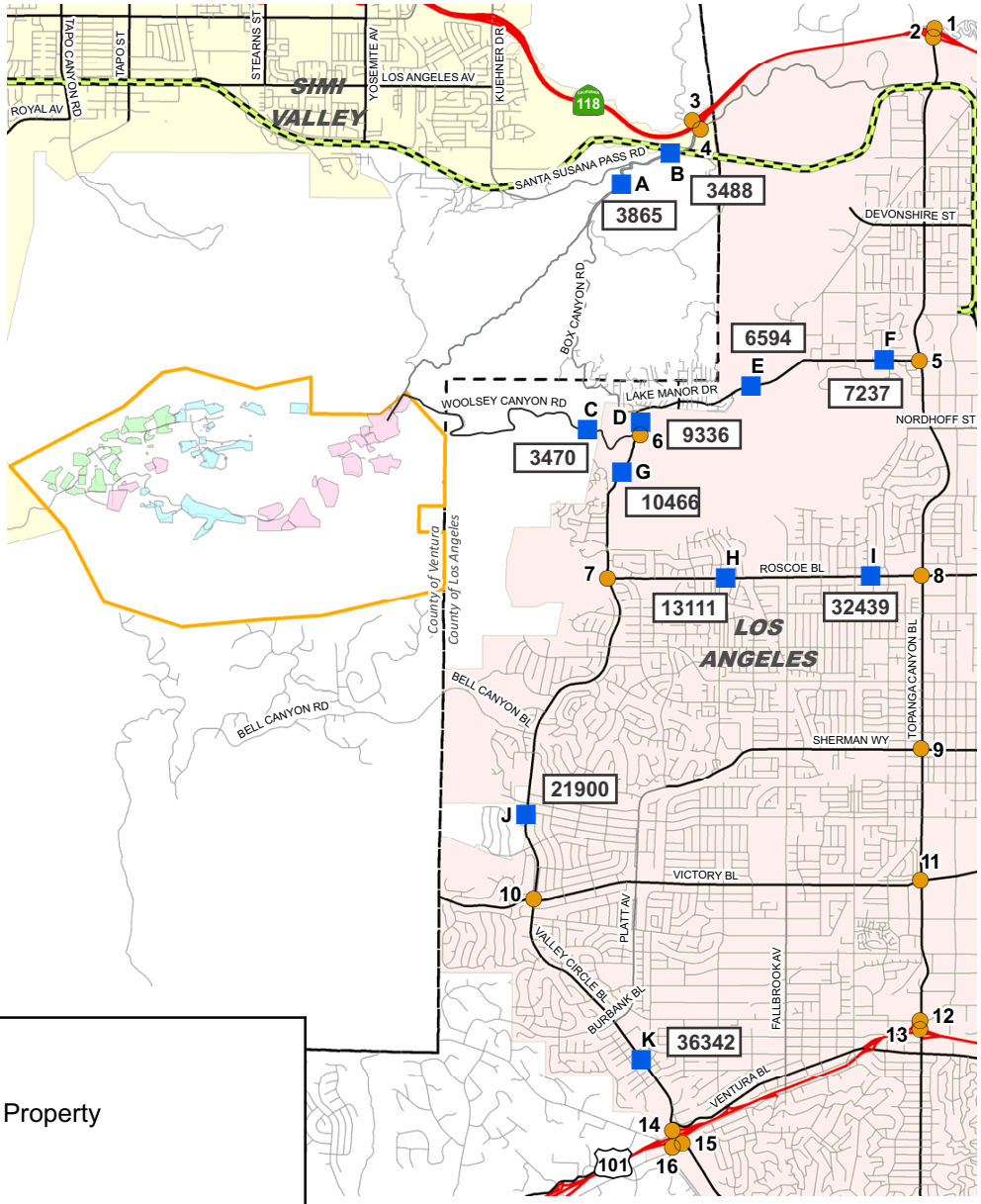
Table 9 – Daily Study Roadway Segment Levels of Service – Start of Remediation Year 2018 plus-Project Conditions

Seg ID	Segment	From	To	# of Lanes	Capacity	Start of Remediation Year (2018) Volumes			Start of Remediation Year 2018 + Project			
						Volume	V/C	LOS	Project Only	Volume	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	2	15,000	3,801	0.253	A	64	3,865	1.017	F
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	2	15,000	3,424	0.228	A	64	3,488	1.019	F
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	2	15,000	2,490	0.166	A	980	3,470	1.394	F
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	2	15,000	9,050	0.603	B	286	9,336	1.032	F
E	Valley Circle Boulevard	Plummer Street	Schumann Road	2	15,000	6,372	0.425	A	222	6,594	1.035	F
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	2	15,000	7,015	0.468	A	222	7,237	1.032	F
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	2	15,000	9,772	0.651	B	694	10,466	1.071	F
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	4	40,000	12,677	0.317	A	434	13,111	1.034	F
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	4	40,000	32,005	0.800	D	434	32,439	1.014	F
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	4	40,000	21,640	0.541	A	260	21,900	1.012	F
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	4	40,000	36,082	0.902	E	260	36,342	1.007	F

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

The peak hour analysis provided in Table 8 is a more realistic predictor of driver perception and characteristics of roadway operations, however. The daily analysis provides a general overview of vehicles carried on a roadway over a 24-hour period, including peak and non-peak periods.

Figure 14 illustrates the start of remediation year 2018 plus-Project weekday daily volumes on the study roadway segments.



LEGEND

- SSFL Property

Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XXX Daily Roadway Volumes

0 1 2 Miles

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Simi Valley Santa Susana Site Remediation EIR — Figure 14

Existing plus-Project Year 2018 - Daily Roadway Segment Volumes

5. Future Year-2032 without Project Remediation Conditions

This section provides the analysis of without-Project conditions in the study area with ambient growth. Project remediation activities are anticipated to be completed by the end of year 2032.

A. Ambient Growth

In order to forecast year-2032 baseline traffic volumes, the existing year-2015 peak hour volumes were increased by an ambient growth rate of 1% per year (a 17-year compounded factor of 1.1843). This growth rate is conservative as the traffic growth projections for the West San Fernando Valley area in the current 2010 *County of Los Angeles Congestion Management Program (CMP),* published by the Metropolitan Transportation Authority, is 0.41% per year.

B. Study Intersection Operations Analysis

A level of service analysis was conducted for the study intersections, in order to document peak hour operations for this scenario. The results of the level of service analysis for future Year-2032 without-Project peak hour conditions are shown in Table 10.

Table 10 – Study Intersection Levels of Service –
Future (2032) without-Project Remediation Conditions

	Study Intersections	Future without Project			
		AM Peak Hour		PM Peak Hour	
		V/C or Delay	LOS	V/C or Delay	LOS
1	Topanga Canyon Blvd & SR-118 WB Ramps	0.932	**E**	1.008	**F**
2	Topanga Canyon Blvd & SR-118 EB Ramps	1.306	**F**	1.270	**F**
3	Rocky Peak Rd & SR-118 WB Ramps *	11.0	B	11.1	B
4	Rocky Peak Rd & Santa Susana Pass Rd *	10.3	B	9.9	A
5	Topanga Canyon Blvd & Plummer St	0.848	D	0.766	C
6	Valley Circle Blvd & Woolsey Canyon Rd *	86.2	**F**	67.4	**F**
7	Valley Circle Blvd & Roscoe Blvd	0.849	D	0.625	B
8	Topanga Canyon Blvd & Roscoe Blvd	0.784	C	0.903	**E**
9	Topanga Canyon Blvd & Sherman Way	0.944	**E**	0.915	**E**
10	Valley Circle Blvd & Victory Blvd	0.819	D	0.605	B
11	Topanga Canyon Blvd & Victory Blvd	0.905	**E**	1.194	**F**
12	Topanga Canyon Blvd & Burbank Blvd	0.776	C	1.062	**F**
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	>100	**F**	>100	**F**
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	1.189	**F**	0.915	**E**
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	0.861	D	1.000	**E**
16	US-101 SB Ramps & Calabasas Rd	0.688	B	0.704	C

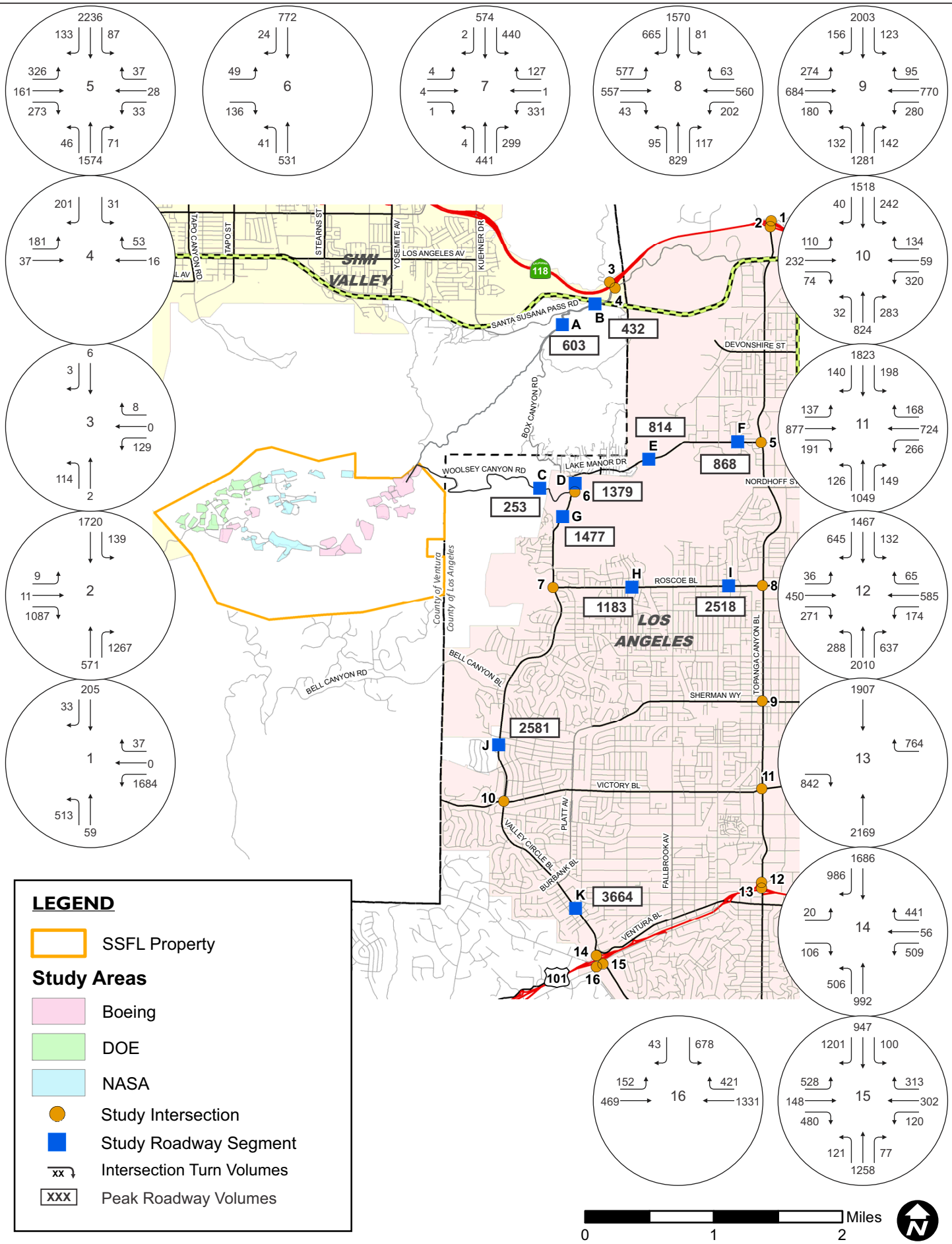
** Unsignalized Intersection*

The following study intersections operate at values of LOS E (nearing or at capacity) or LOS F (above capacity):

- Intersections #2, #6, and #13 operate at LOS F in the both the a.m. and p.m. peak hours.
- Intersection #14 operates at LOS F in the a.m. peak hour.
- Intersections #1, #11, and #12 operate at LOS F in the p.m. peak hour.
- Intersections #1, #9, and #11 operate at LOS E in the a.m. peak hour.
- Intersections #8, #9, #14, and #15 operate at LOS E in the p.m. peak hour.

The future without-Project LOS calculation worksheets for the study intersections are provided in Appendix C of this report. The study intersections analyzed in Circular 212 Planning methodology for that scenario are provided in Appendix D.

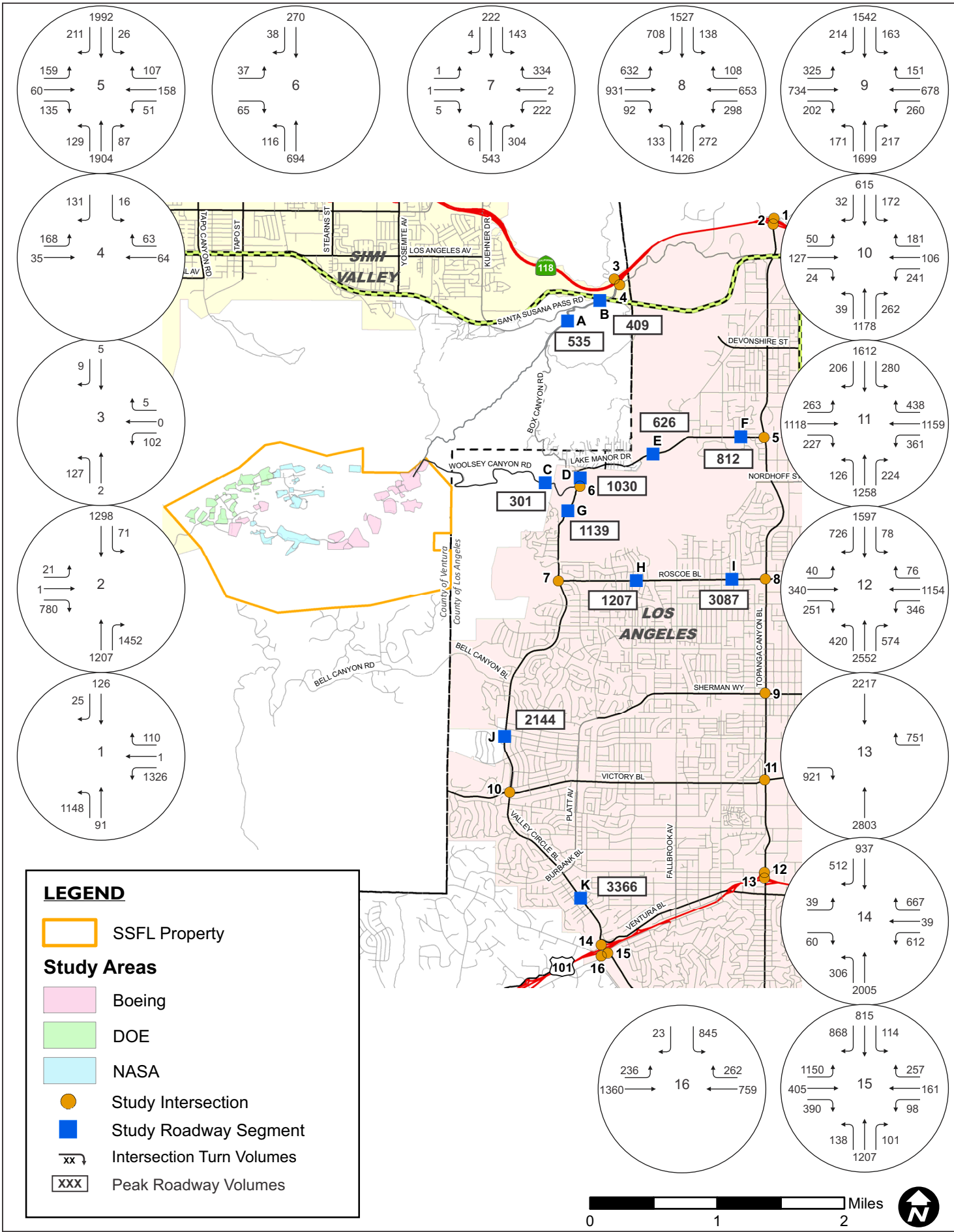
Figure 15 and Figure 16 illustrate the future without-Project a.m. and p.m. peak hour traffic volumes at the study intersections.



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Simi Valley Santa Susana Site Remediation EIR — Figure 15

Future Year 2032 without Project - AM Peak Hour Intersection Volumes



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Simi Valley Santa Susana Site Remediation EIR — Figure 16

Future Year 2032 without Project - PM Peak Hour Intersection Volumes

C. Study Roadway Segment Operations Analysis

A future (year 2032) without-Project scenario level of service analysis was conducted for peak hour and daily traffic conditions at the study roadway segments.

Table 11 summarizes the results of the peak hour analysis for the study roadway segments. The following study roadway segments operate at values of LOS E (nearing or at capacity) or LOS F (above capacity):

- Segment D operates at LOS F during the a.m. peak hour and LOS E during the p.m. peak hour
- Segment G operates at LOS F during both the a.m. and p.m. peak hours
- Segment I operates at LOS F during both the a.m. and p.m. peak hours
- Segment J operates at LOS F during the a.m. peak hour
- Segment K operates at LOS F during both the a.m. and p.m. peak hours

Figure 15 and Figure 16, introduced previously, illustrate the future without project a.m. and p.m. peak hour traffic volumes at the study roadway segments.

Table 11 – Peak Hour Study Roadway Segment Levels of Service – Future (2032) without Project Remediation Conditions

Seg ID	Segment	From	To	Peak Period	Future 2032 without Project			
					Ambient Growth	Volumes	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	AM	18.4%	603	0.574	A
				PM	18.4%	535	0.510	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	AM	18.4%	432	0.411	A
				PM	18.4%	409	0.390	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	AM	18.4%	253	0.241	A
				PM	18.4%	301	0.287	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	AM	18.4%	1,379	1.313	**F**
				PM	18.4%	1,030	0.981	**E**
E	Valley Circle Boulevard	Plummer Street	Schumann Road	AM	18.4%	814	0.775	C
				PM	18.4%	626	0.596	A
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	AM	18.4%	868	0.827	D
				PM	18.4%	812	0.773	C
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	AM	18.4%	1,477	1.407	**F**
				PM	18.4%	1,139	1.085	**F**
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	AM	18.4%	1,183	0.473	A
				PM	18.4%	1,207	0.483	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	AM	18.4%	2,518	1.007	**F**
				PM	18.4%	3,087	1.235	**F**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	AM	18.4%	2,581	1.032	**F**
				PM	18.4%	2,144	0.858	D
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	AM	18.4%	3,664	1.466	**F**
				PM	18.4%	3,366	1.346	**F**

** Based on most constricted segment of overall roadway.*

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

Table 12 summarizes the results of the daily operations analysis for the study roadway segments. As shown, all of the study roadway segments operate at LOS values of D or better, except Segment I which is expected to operate at LOS E and Segment K which is expected to operate at LOS F.

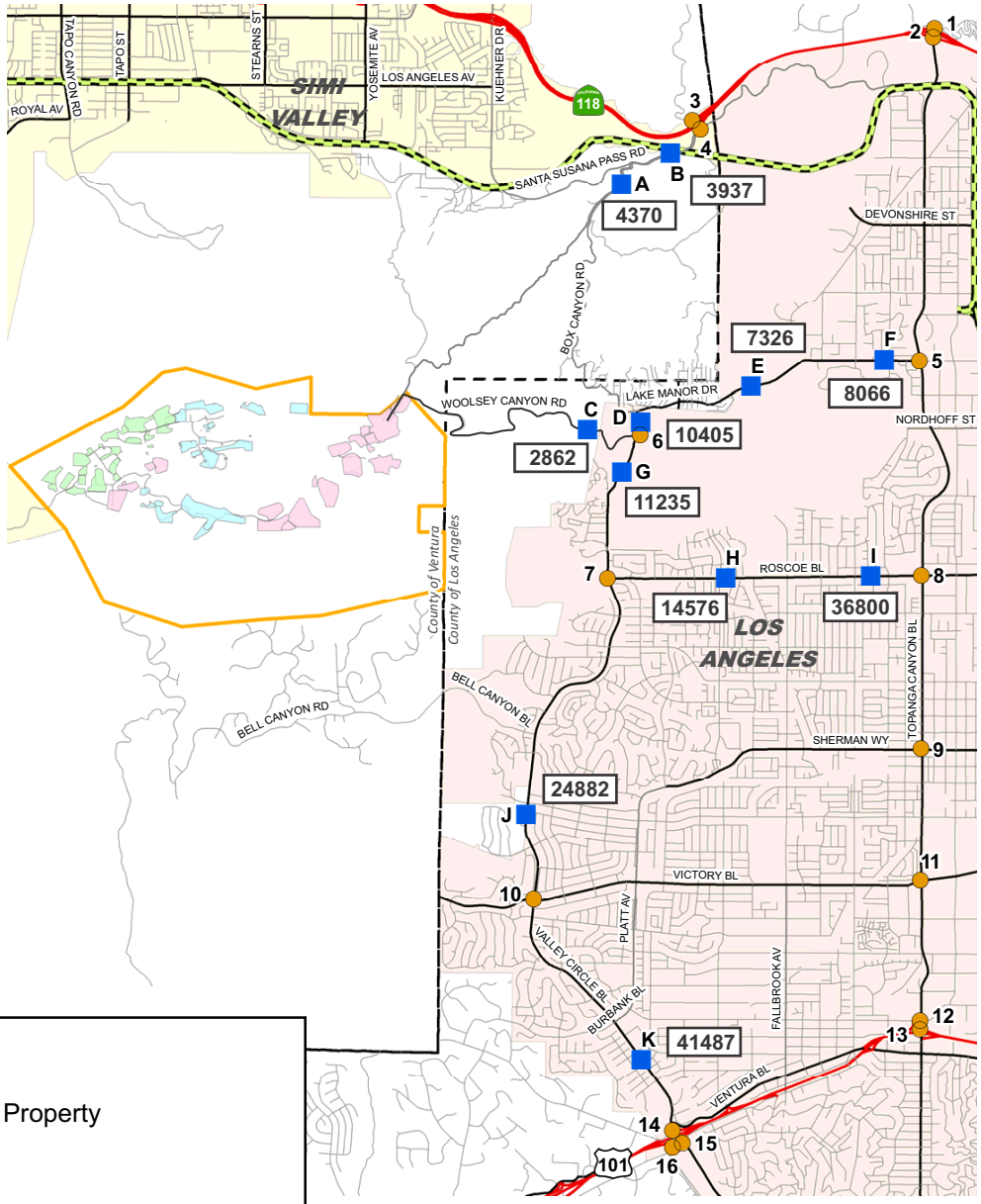
The peak hour analysis provided in Table 11 is a more realistic predictor of driver perception and characteristics of roadway operations, however. The daily analysis provides a general overview of vehicles carried on a roadway over a 24-hour period, including peak and non-peak periods.

Table 12 – Daily Study Roadway Segment Levels of Service – Future (2032) without Project Remediation Conditions

Seg ID	Segment	From	To	Future 2032 without Project			
				Ambient Growth	Volume	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	18.4%	4,370	0.291	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	18.4%	3,937	0.262	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	18.4%	2,862	0.191	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	18.4%	10,405	0.694	B
E	Valley Circle Boulevard	Plummer Street	Schumann Road	18.4%	7,326	0.488	A
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	18.4%	8,066	0.538	A
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	18.4%	11,235	0.749	C
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	18.4%	14,576	0.364	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	18.4%	36,800	0.920	**E**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	18.4%	24,882	0.622	B
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	18.4%	41,487	1.037	**F**

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

Figure 17 illustrates the future without project weekday daily volumes on the study roadway segments.



LEGEND

- SSFL Property

Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XXX Daily Roadway Volumes

0 1 2 Miles

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Simi Valley Santa Susana Site Remediation EIR — Figure 17

Future Year 2032 without Project - Daily Roadway Segment Volumes

6. Future Year-2032 with Project Remediation Conditions

This section documents the future (year 2032) traffic conditions with-Project remediation activities within the study area. The traffic volumes for this scenario were derived by adding the project remediation trips to the future without-Project conditions traffic volumes defined within Section 3 of this report.

A. Study Intersection Operations Analysis

A level of service analysis was conducted for the study intersections, in order to document peak hour operations for this scenario. Table 13 provides the results of this analysis.

Table 13 – Study Intersection Levels of Service –
Future (2032) with-Project Remediation Conditions

	Study Intersections	Future with Project			
		AM Peak Hour		PM Peak Hour	
		V/C or Delay	LOS	V/C or Delay	LOS
1	Topanga Canyon Blvd & SR-118 WB Ramps	0.949	**E**	1.021	**F**
2	Topanga Canyon Blvd & SR-118 EB Ramps	1.325	**F**	1.302	**F**
3	Rocky Peak Rd & SR-118 WB Ramps *	11.1	B	11.2	B
4	Rocky Peak Rd & Santa Susana Pass Rd *	10.4	B	10.0	A
5	Topanga Canyon Blvd & Plummer St	0.862	D	0.776	C
6	Valley Circle Blvd & Woolsey Canyon Rd *	>100	**F**	>100	**F**
7	Valley Circle Blvd & Roscoe Blvd	0.886	D	0.659	B
8	Topanga Canyon Blvd & Roscoe Blvd	0.810	D	0.910	**E**
9	Topanga Canyon Blvd & Sherman Way	0.947	**E**	0.920	**E**
10	Valley Circle Blvd & Victory Blvd	0.821	D	0.606	B
11	Topanga Canyon Blvd & Victory Blvd	0.911	**E**	1.195	**F**
12	Topanga Canyon Blvd & Burbank Blvd	0.776	C	1.062	**F**
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	>100	**F**	>100	**F**
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	1.189	**F**	0.917	**E**
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	0.872	D	1.000	**E**
16	US-101 SB Ramps & Calabasas Rd	0.698	B	0.704	C

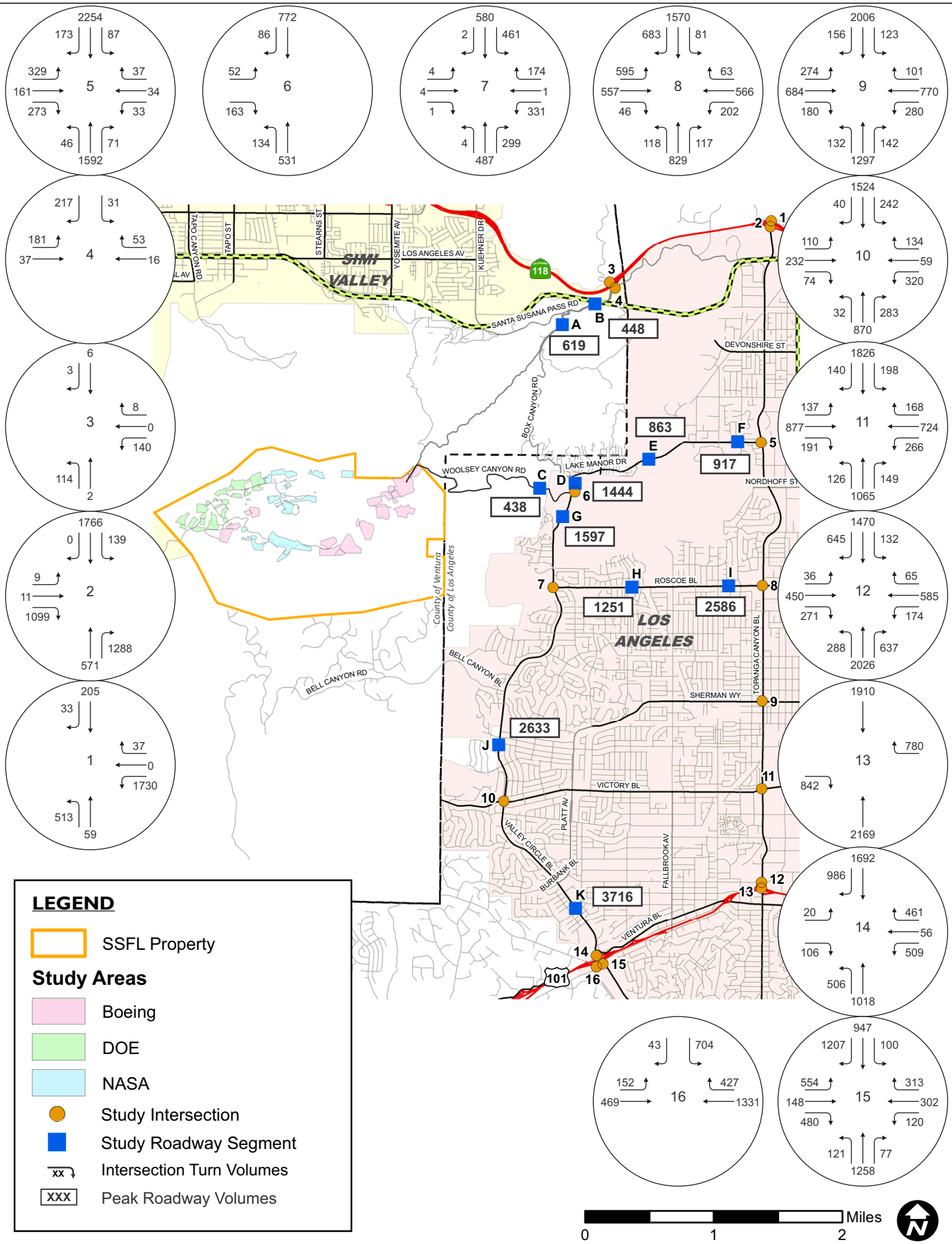
** Unsignalized Intersection*

The following study intersections operate at values of LOS E (nearing or at capacity) or LOS F (above capacity):

- Intersections #2, #6, and #13 operate at LOS F in the both the a.m. and p.m. peak hours.
- Intersection #14 operates at LOS F in the a.m. peak hour.
- Intersections #1, #11, and #12 operate at LOS F in the p.m. peak hour.
- Intersections #8, #9, and #14, and #15 operate at LOS E in the p.m. peak hour.
- Intersections #1, #9, and #11 operate at LOS E in the a.m. peak hour.

The future with-Project LOS calculation worksheets for the study intersections analyzed in CMA methodology are provided in Appendix C of this report. The study intersections analyzed in Circular 212 Planning methodology area provided in Appendix D of this report.

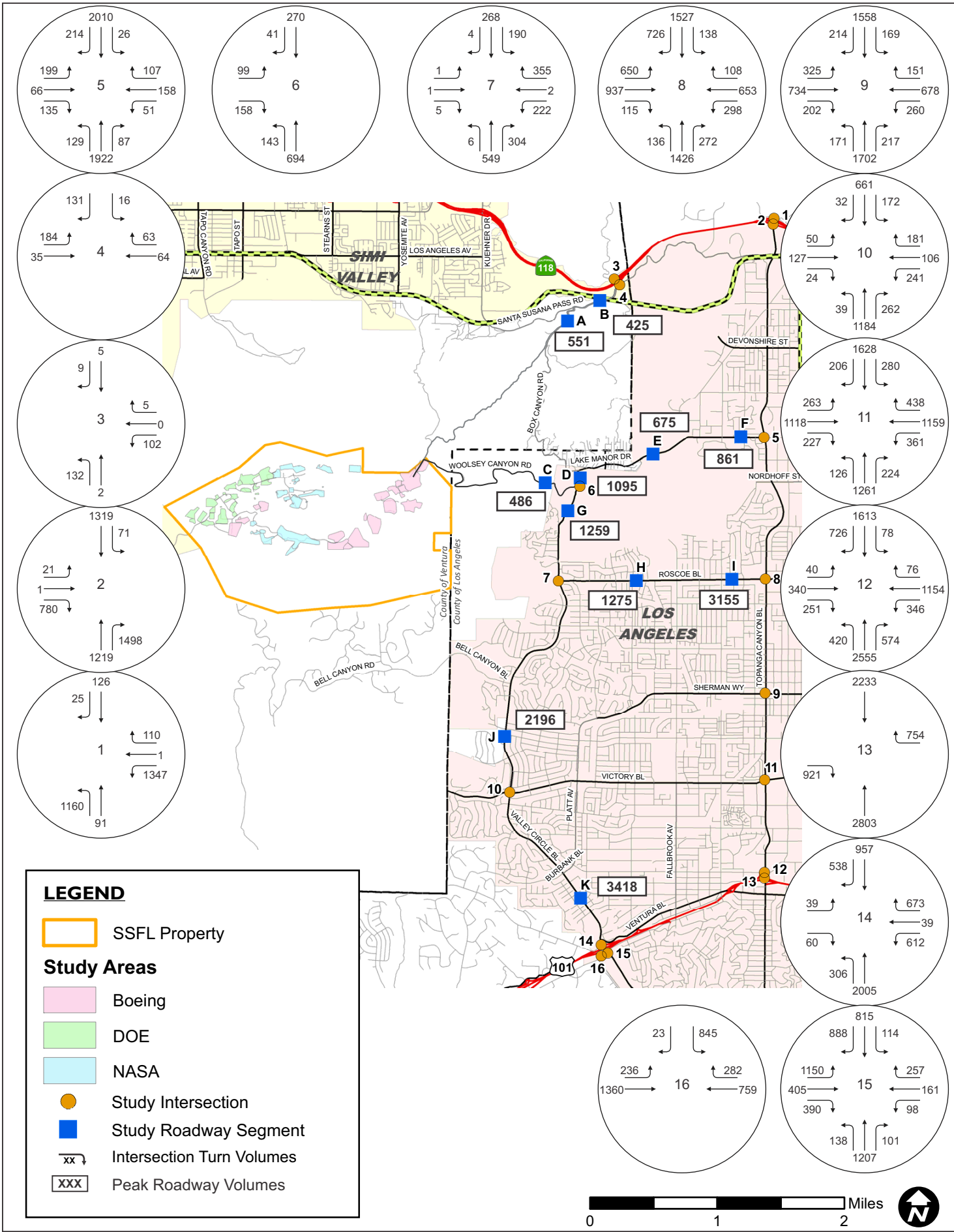
The analyzed future with project remediation peak hour traffic volumes at the study intersections for this scenario is provided in Figure 18 (a.m. peak) and Figure 19 (p.m. peak).



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Simi Valley Santa Susana Site Remediation EIR — Figure 18

Future Year 2032 with Project - AM Peak Hour Intersection Volumes



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Simi Valley Santa Susana Site Remediation EIR — Figure 19

Future Year 2032 with Project - PM Peak Hour Intersection Volumes

B. Study Roadway Segment Operations Analysis

A future (year 2032) with-Project level of service analysis was conducted for peak hour and daily traffic conditions at the study roadway segments.

Table 14 summarizes the results of the peak hour analysis for the study roadway segments. The following study roadway segments operate at values of LOS E (nearing or at capacity) or LOS F (above capacity):

- Segment D operates at LOS F during both the a.m. and p.m. peak hours
- Segment G operates at LOS F during both the a.m. and p.m. peak hours
- Segment I operates at LOS F during both the a.m. and p.m. peak hours
- Segment J operates at LOS F during the a.m. peak hour
- Segment K operates at LOS F during both the a.m. and p.m. peak hours

Figure 18 and Figure 19, introduced previously, illustrate the future with project remediation a.m. and p.m. peak hour traffic volumes at the study roadway segments.

Table 14 – Peak Hour Study Roadway Segment Levels of Service – Future (2032) with-Project Remediation Conditions

Seg ID	Segment	From	To	Peak Period	Future 2032 with Project			
					Project Only	Volumes	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	AM	16	619	0.590	A
				PM	16	551	0.525	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	AM	16	448	0.427	A
				PM	16	425	0.405	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	AM	185	438	0.417	A
				PM	185	486	0.463	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	AM	65	1,444	1.375	**F**
				PM	65	1,095	1.043	**F**
E	Valley Circle Boulevard	Plummer Street	Schumann Road	AM	49	863	0.822	D
				PM	49	675	0.643	B
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	AM	49	917	0.873	D
				PM	49	861	0.820	D
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	AM	120	1,597	1.521	**F**
				PM	120	1,259	1.199	**F**
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	AM	68	1,251	0.500	A
				PM	68	1,275	0.510	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	AM	68	2,586	1.034	**F**
				PM	68	3,155	1.262	**F**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	AM	52	2,633	1.053	**F**
				PM	52	2,196	0.878	D
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	AM	52	3,716	1.486	**F**
				PM	52	3,418	1.367	**F**

** Based on most constricted segment of overall roadway.*

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

Table 15 summarizes the results of the daily operations analysis for the study roadway segments. As shown, all of the study roadway segments operate at LOS values of D or better, except Segment I which is expected to operate at LOS E and Segment K which is expected to operate at LOS F.

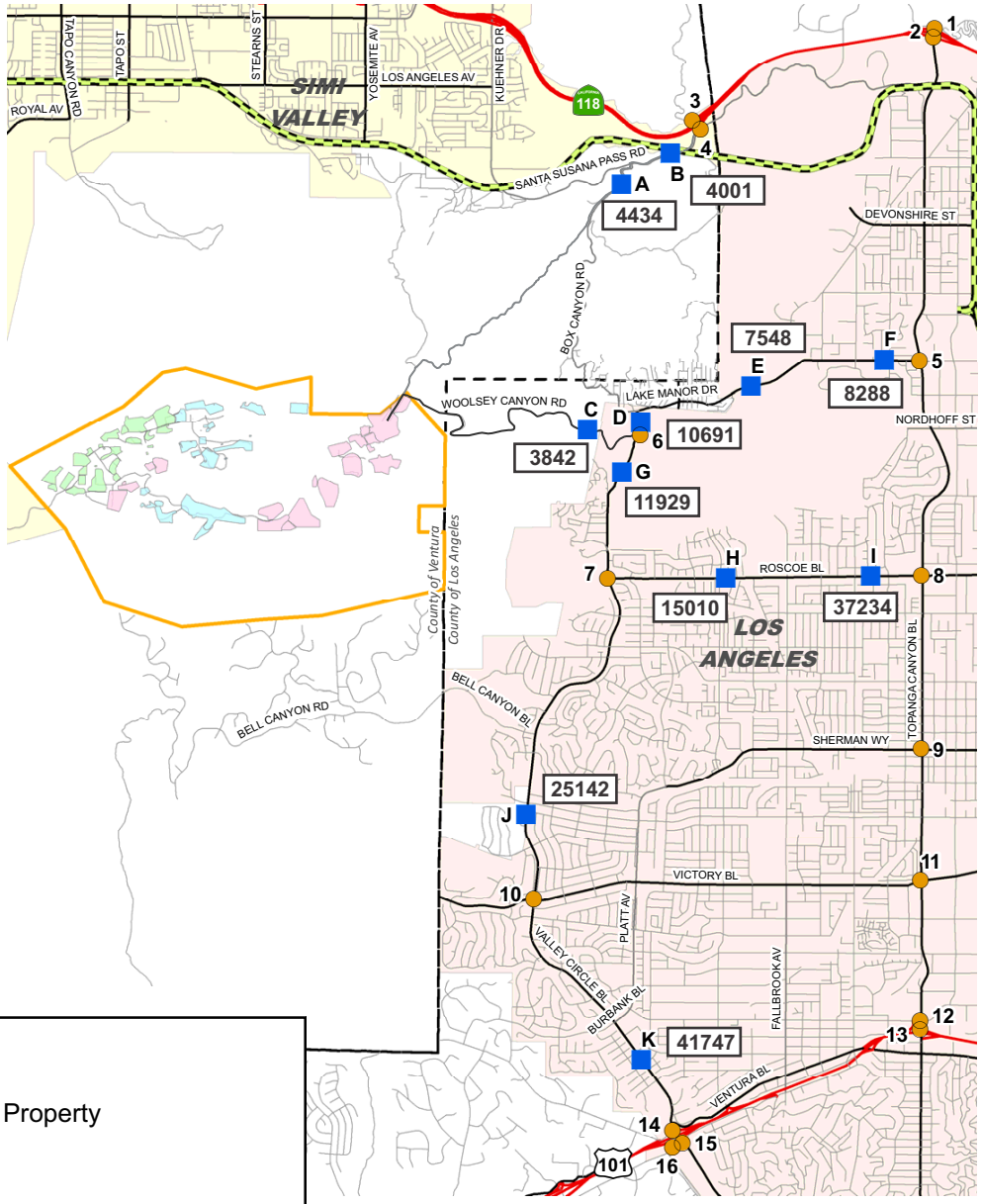
The peak hour analysis provided in Table 14 is a more realistic predictor of driver perception and characteristics of roadway operations, however. The daily analysis provides a general overview of vehicles carried on a roadway over a 24-hour period, including peak and non-peak periods.

Table 15 – Daily Study Roadway Segment Levels of Service – Future (2032) with-Project Remediation Conditions

Seg ID	Segment	From	To	Future 2032 with Project			
				Project Only	Volume	V/C	LOS
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	64	4,434	0.296	A
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	64	4,001	0.267	A
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	980	3,842	0.256	A
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	286	10,691	0.713	C
E	Valley Circle Boulevard	Plummer Street	Schumann Road	222	7,548	0.503	A
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	222	8,288	0.553	A
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	694	11,929	0.795	C
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	434	15,010	0.375	A
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	434	37,234	0.931	**E**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	260	25,142	0.629	B
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	260	41,747	1.044	**F**

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

Figure 20 illustrates the future with project remediation weekday daily volumes on the study roadway segments.



LEGEND

- SSFL Property

Study Areas

- Boeing
- DOE
- NASA
- Study Intersection
- Study Roadway Segment
- XXX Daily Roadway Volumes

0 1 2 Miles

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Simi Valley Santa Susana Site Remediation EIR — Figure 20

Future Year 2032 with Project - Daily Roadway Segment Volumes

7. Project Remediation Impacts

A. Significant Impact Guidelines

Traffic impacts are identified if the proposed Project will result in a significant change in traffic conditions at a study intersection. A significant impact is typically identified if project-related traffic will cause service levels to deteriorate beyond a threshold limit specified by the overseeing agency. Impacts can also be significant if an intersection is already operating below acceptable level of service and project traffic will cause a further decline below a threshold.

The City of Los Angeles Department of Transportation has established specific thresholds for project related increases in the volume-to-capacity ratio (V/C) of signalized study intersections. The following increases in peak hour V/C ratios are considered significant impacts:

Level of Service	Final V/C*	Project Related v/c increase
C	< 0.70 – 0.80	Equal to or greater than 0.040
D	< 0.80 – 0.90	Equal to or greater than 0.020
E and F	0.90 or more	Equal to or greater than 0.010

Note: Final V/C is the V/C ratio at an intersection, considering impacts from the project, ambient and related project growth, and without proposed traffic impact mitigations.

The County of Los Angeles uses an impact standard based on a change in V/C or Intersection Capacity Utilization methodology values of 0.02 or more, causing or worsening LOS E or F. The City of Simi Valley uses the same impact standards.

Significant roadway segment impacts were defined based on changes in worsening peak hour LOS values to E or F due to Project construction.

Significant impact determinations to the study intersections and roadway segments are discussed below.

B. Project Remediation Impact Intersection Analysis – Start of Remediation Year 2018 + Project

The data within Table 16 provides a comparison of all analyzed scenarios for the study intersections. Traffic impacts created by the project were calculated by subtracting the volume-to-capacity (v/c) totals under the "Start of Remediation Year 2018 Conditions" heading from the totals under the "Start of Remediation Year 2018 with Project Conditions" heading. The overall traffic impacts created by the remediation project traffic and determination of significant impacts are provided in the right two columns of the table.

Table 16 – Start of Remediation Year 2018 Impact Intersection Analysis

	Study Intersections	Start of Remediation Year 2018 without Project Conditions				Start of Remedition Year 2018 with Project Conditions				Change in V/C		Significant Impact ? AM Peak Hour	Significant Impact ? PM Peak Hour
		AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour		
		V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS				
1	Topanga Canyon Blvd & SR-118 WB Ramps	0.809	D	0.876	D	0.827	D	0.888	D	0.018	0.012	No	No
2	Topanga Canyon Blvd & SR-118 EB Ramps	1.122	F	1.091	F	1.141	F	1.123	F	0.019	0.032	Yes	Yes
3	Rocky Peak Rd & SR-118 WB Ramps *	10.5	B	10.6	B	10.6	B	10.7	B	0.1	0.1	-	-
4	Rocky Peak Rd & Santa Susana Pass Rd *	9.9	A	9.6	A	10.0	A	9.7	A	0.1	0.1	-	-
5	Topanga Canyon Blvd & Plummer St	0.723	C	0.653	B	0.739	C	0.662	B	0.016	0.009	No	No
6	Valley Circle Blvd & Woolsey Canyon Rd *	44.7	E	34.3	D	58.0	F	57.3	F	13.3	23.0	-	-
7	Valley Circle Blvd & Roscoe Blvd	0.725	C	0.529	A	0.761	C	0.564	A	0.036	0.035	No	No
8	Topanga Canyon Blvd & Roscoe Blvd	0.668	B	0.771	C	0.694	A	0.778	A	0.026	0.007	No	No
9	Topanga Canyon Blvd & Sherman Way	0.806	D	0.781	C	0.809	D	0.786	C	0.003	0.005	No	No
10	Valley Circle Blvd & Victory Blvd	0.699	B	0.512	A	0.701	C	0.513	A	0.002	0.001	No	No
11	Topanga Canyon Blvd & Victory Blvd	0.773	C	1.024	F	0.779	C	1.024	F	0.006	0.000	No	No
12	Topanga Canyon Blvd & Burbank Blvd	0.662	B	0.910	E	0.662	B	0.910	E	0.000	0.000	No	No
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	> 100	F	> 100	F	> 100	F	> 100	F	-	-	-	-
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	1.020	F	0.781	C	1.020	F	0.784	C	0.000	0.003	No	No
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	0.736	C	0.855	D	0.746	C	0.855	D	0.010	0.000	No	No
16	US-101 SB Ramps & Calabasas Rd	0.585	A	0.598	A	0.595	A	0.598	A	0.010	0.000	No	No

** Unsignalized Intersection*

As indicated by the right-most columns of Table 16, the proposed Project is expected to create significant impacts at the following location:

- Intersection #2 during both the a.m. and p.m. peak hours

C. Project Remediation Impact Intersection Analysis – Future plus Remediation

The data within Table 17 provides a comparison of all analyzed scenarios for the study intersections. Traffic impacts created by the project were calculated by subtracting the volume-to-capacity (v/c) totals under the "Future 2032 without Project Conditions" heading from the totals under the "Future 2032 with Project Conditions" heading.

The overall traffic impacts created by the remediation project traffic and determination of significant impacts are provided in the right two columns of the table.

Table 17 – Future Project Remediation Impact Intersection Analysis

	Study Intersections	Jurisdiction	Future 2032 without Project Conditions				Future 2032 with Project Conditions				Change in V/C		Significant Impact ? AM Peak Hour	Significant Impact ? PM Peak Hour
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour		
			V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS				
1	Topanga Canyon Blvd & SR-118 WB Ramps	Los Angeles County	0.932	E	1.008	F	0.949	E	1.021	F	0.017	0.013	Yes	Yes
2	Topanga Canyon Blvd & SR-118 EB Ramps	Los Angeles	1.306	F	1.270	F	1.325	F	1.302	F	0.019	0.032	Yes	Yes
3	Rocky Peak Rd & SR-118 WB Ramps *	Simi Valley	11.0	B	11.1	B	11.1	B	11.2	B	0.100	0.100	-	-
4	Rocky Peak Rd & Santa Susana Pass Rd *	Simi Valley	10.3	B	9.9	A	10.4	B	10.0	A	0.100	0.100	-	-
5	Topanga Canyon Blvd & Plummer St	Los Angeles	0.848	D	0.766	C	0.862	D	0.776	C	0.014	0.010	No	No
6	Valley Circle Blvd & Woolsey Canyon Rd *	Los Angeles	86.2	F	67.4	F	>100	F	>100	F	-	-	Yes	Yes
7	Valley Circle Blvd & Roscoe Blvd	Los Angeles	0.849	D	0.625	B	0.886	D	0.659	B	0.037	0.034	Yes	No
8	Topanga Canyon Blvd & Roscoe Blvd	Los Angeles	0.784	C	0.903	E	0.810	D	0.910	E	0.026	0.007	Yes	No
9	Topanga Canyon Blvd & Sherman Way	Los Angeles	0.944	E	0.915	E	0.947	E	0.920	E	0.003	0.005	No	No
10	Valley Circle Blvd & Victory Blvd	Los Angeles	0.819	D	0.605	B	0.821	D	0.606	B	0.002	0.001	No	No
11	Topanga Canyon Blvd & Victory Blvd	Los Angeles	0.905	E	1.194	F	0.911	E	1.195	F	0.006	0.001	No	No
12	Topanga Canyon Blvd & Burbank Blvd	Los Angeles	0.776	C	1.062	F	0.776	C	1.062	F	0.000	0.000	No	No
13	Topanga Canyon Blvd & US-101 NB Off Ramp *	Los Angeles	>100	F	>100	F	>100	F	>100	F	-	-	Yes	Yes
14	Valley Circle Blvd & US-101 NB Off Ramp/Long Valley Rd	Los Angeles	1.189	F	0.915	E	1.189	F	0.917	E	0.000	0.002	No	No
15	Valley Circle Blvd & Calabasas Rd/ Avenue San Luis	Los Angeles	0.861	D	1.000	E	0.872	D	1.000	E	0.011	0.000	No	No
16	US-101 SB Ramps & Calabasas Rd	Los Angeles	0.688	B	0.704	C	0.698	B	0.704	C	0.010	0.000	No	No

** Unsignalized Intersection*

As indicated by the right-most columns of Table 17, the proposed Project is expected to create significant impacts at the following locations:

- Intersections #1 and #2 during both the a.m. and p.m. peak hours
- Intersections #7 and #8 during the a.m. peak hour
- Intersections #6 and #13 during both the a.m. and p.m. peak hours, according to the worsening of LOS E or F and Peak Hour Signal Warrant (See Appendix F for worksheets)

D. Project Remediation Impact Roadway Segment Analysis – Start of Remediation Year 2018 + Project

The peak hour volumes on the study roadway segments, for conditions with and without remediation of the proposed Project, are provided in Table 18. Impacts to these roadway segments are evaluated, based on the existing daily traffic counts, ambient growth, and the project remediation trips.

Table 18 – Start of Remediation Year 2018 Project Impact Segment Analysis

Seg ID	Segment	From	To	Peak Period	LOS w/ Project	Worsens LOS E or F?
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	AM	A	No
				PM	A	No
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	AM	A	No
				PM	A	No
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	AM	A	No
				PM	A	No
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	AM	**F**	**Yes**
				PM	**E**	**Yes**
E	Valley Circle Boulevard	Plummer Street	Schumann Road	AM	C	No
				PM	A	No
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	AM	C	No
				PM	C	No
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	AM	**F**	**Yes**
				PM	**F**	**Yes**
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	AM	A	No
				PM	A	No
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	AM	**E**	**Yes**
				PM	**F**	**Yes**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	AM	**E**	**Yes**
				PM	C	No
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	AM	**F**	**Yes**
				PM	**F**	**Yes**

** Based on most constricted segment of overall roadway.*

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehic

As indicated by the right-most column of Table 18, the proposed Project is expected to create significant impacts at segments D, G, I, J, and K for both the a.m. and p.m. peak periods.

E. Future Project Remediation Impact Roadway Segment Analysis

The peak hour volumes on the study roadway segments, for conditions with and without remediation of the proposed Project, are provided in Table 19. Impacts to these roadway segments are evaluated, based on the existing daily traffic counts, ambient growth, and the project remediation trips.

Table 19 – Project Remediation Impact Segment Analysis

Seg ID	Segment	From	To	Peak Period	LOS w/ Project	Worsens LOS E or F?
A	Box Canyon Road	Santa Susana Pass Road	Roberson Road	AM	A	No
				PM	A	No
B	Santa Susana Pass Road	Rocky Peak Road	Box Canyon Road	AM	A	No
				PM	A	No
C	Woolsey Canyon Road	Valley Circle Boulevard	Knapp Ranch Road	AM	A	No
				PM	A	No
D	Valley Circle Boulevard	Box Canyon Road	Woolsey Canyon Road	AM	**F**	**Yes**
				PM	**F**	**Yes**
E	Valley Circle Boulevard	Plummer Street	Schumann Road	AM	D	**Yes**
				PM	B	No
F	Plummer Street	Valley Circle Boulevard	Farralone Avenue	AM	D	**Yes**
				PM	D	**Yes**
G	Valley Circle Boulevard	Woolsey Canyon Road	Chatlake Drive	AM	**F**	**Yes**
				PM	**F**	**Yes**
H	Roscoe Boulevard	Woodlake Avenue	Shoup Avenue	AM	A	No
				PM	A	No
I	Roscoe Boulevard	Shoup Avenue	Farralone Avenue	AM	**F**	**Yes**
				PM	**F**	**Yes**
J	Valley Circle Boulevard	Vanowen Street	Victory Boulevard	AM	**F**	**Yes**
				PM	D	**Yes**
K	Valley Circle Boulevard	Burbank Boulevard	US-101 Freeway	AM	**F**	**Yes**
				PM	**F**	**Yes**

** Based on most constricted segment of overall roadway.*

Note: Per-lane capacity based on extrapolations of Highway Capacity Manual methodology (10,000 daily vehicles, approx. 500 to 600 peak-hour vehicles)

As indicated by the right-most column of Table 19, the proposed Project is expected to create significant impacts at segments D, F, G, I, J, and K for both the a.m. and p.m. peak periods and at segment E during the a.m. peak period.

8. Pedestrian and Bicycle Access Impacts Analysis

A. Pedestrian Access Impacts Analysis

Within this report section, an analysis is summarized of potential impacts to pedestrian travel within local roadway corridors where truck trips generated by SSFL remediation activities would travel. A review of traffic controls and pedestrian crossing points on these roadways was conducted, to determine if there are uncontrolled or unmarked crossing points that may need improvement for improved pedestrian safety during the remediation period due to the increased number of trucks that will use these roadways.

The analyzed local routes in the traffic impact analysis for remediation haul trucks between the SSFL site access points and the nearby SR-118 and US-101 freeways include Topanga Canyon Boulevard, Valley Circle Boulevard, Plummer Street, and Roscoe Boulevard.

The pedestrian analysis focused on areas that typically generate higher-than-average pedestrian volumes – neighborhoods with parks or schools. These locations were mapped within a one-half mile buffered distance from the analyzed roadway corridors. This distance is considered typical walking distance for pedestrian travel. Probable paths were then mapped from each point to a crossing point on the nearest analyzed roadway, and the overlap with traffic controls for safe crossing of the roadway was determined for each path.

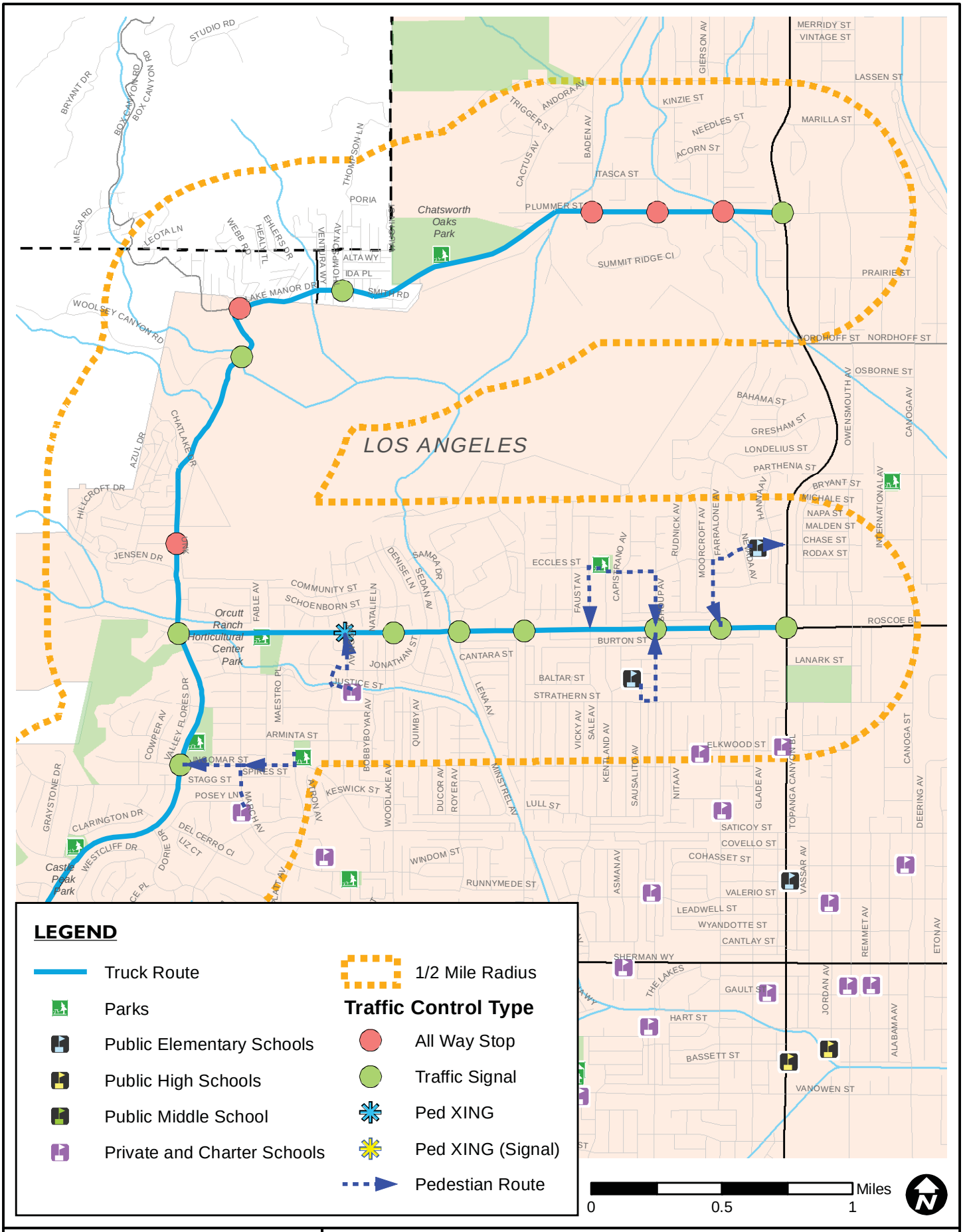
It was assumed in the project trip generation analysis that daily SSFL remediation activities will occur in a single eight-hour shift that generally begins prior to the a.m. peak traffic hour and is generally complete prior to the p.m. peak traffic hour[1]:

- 96 daily truck round trips would be generated during remediation. Divided by an expected eight-hour work day, there would be an average of 12 truck round trips in a typical hour. Using a Passenger Car Equivalency factor of 2.5, the total equivalent daily one-way vehicle trips would be 480 (or 60 per hour).

The analyzed corridors and pedestrian routes are illustrated on Figure 20-1 (north end of the study area) and Figure 20-2 (south end of the study area). Traffic controls are included on these figures, including traffic signals, all-way stop signs, mid-block pedestrian crossing points with traffic signals, and striped/signed mid-block crosswalks. In general, pedestrian routes from most local neighborhoods with parks or schools have controlled locations with traffic signals at intersections, or crosswalks with warning lights at crossing points, on the analyzed roadways. The exceptions are as follows:

- Chatsworth Oaks Park – There are not developed land uses nor is there a local neighborhood with pedestrian destinations across from the access point of this park on Valley Circle Boulevard. Pedestrian crossing activity here is low.

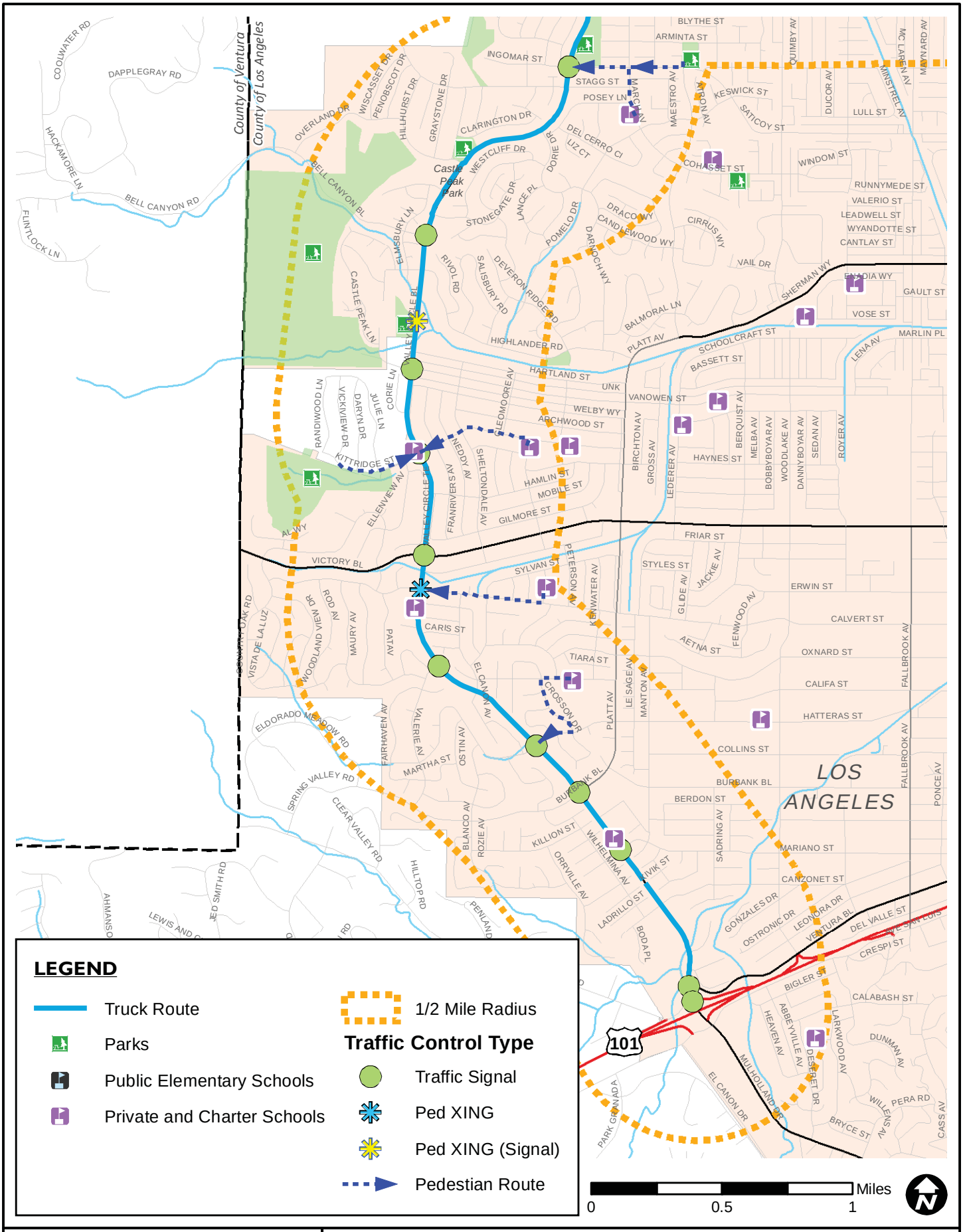
[1] The a.m. and p.m. peak hours for each study intersection (i.e., the four highest consecutive 15-minute periods within each of the two-hour peak periods of 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.) vary somewhat (though are generally 7:15 a.m. to 8:15 a.m. and 4:45 p.m. to 5:45 p.m.). The period from 8:15 a.m. to 4:45 p.m. is 8.5 hours long.



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Simi Valley Santa Susana Site Remediation EIR — Figure 21-1

Pedestrian Routes - Existing Traffic Controls and Schools/Parks



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PLANNING & ENGINEERING

Simi Valley Santa Susana Site Remediation EIR — Figure 21-2

Pedestrian Routes - Existing Traffic Controls and Schools/Parks

- Orcutt Ranch Horticultural Center Park – This park and events venue does not have a controlled or signed/striped pedestrian crossing point near its access point on Roscoe Boulevard. Installation of either a signed/striped crosswalk with warning lights or a traffic signal should be pursued at the intersection of Hillary Drive/Roscoe Boulevard to provide improved safety for crossing pedestrians.

- Castle Peak Park – This park has access points along the west side of Valley Circle Boulevard and at the intersection of Stonegate Drive/Valley Circle Boulevard. There are not any destinations or neighborhood accessible along the east side of Valley Circle Boulevard at this point. Pedestrian crossing activity here is low.

Crossing locations at other points along the analyzed roadways have pedestrian traffic controls or signage, or traffic signals. Pedestrian/traffic control improvements are not recommended at other locations.

The Roscoe Boulevard, Plummer Street, and Valley Circle Boulevard corridors were analyzed as potential truck route corridors for the SSFL remediation period. In final project planning, the number of corridors used for project truck haul routes may be reduced. In that case, the corridors removed from the routes will not need to have the related pedestrian access improvements discussed here.

B. Bicycle Access Impacts Analysis

In order to evaluate bicycle access impacts on roadways near the SSFL site, where truck traffic generated by the site remediation process would be traveling on two-lane roadways, bicycle counts were conducted on Lake Manor Drive, Roscoe Boulevard, and Valley Circle Boulevard, in relative vicinity of the SSFL site. These counts were conducted on a weekday (Thursday, February 25, 2016) and a Saturday (Saturday, February 27, 2016). It is noted that although there could be a higher number of bicycle commuters when days are longer and weather is better than it is in late February, the potential impacts described in this report section are expected to be similar during all times of the year.

The weekday count timeframes were from 6:00 a.m. to 10:00 a.m. (to capture bicycle commuters and recreational bicyclists on morning rides) and 2:00 p.m. to 6:00 p.m. (to capture early afternoon school trips made on bicycle and return commute trips).

The weekend count timeframe was from 7:00 a.m. to 11:00 a.m. (to capture morning recreational cyclists).

A map of the bicycle count locations and the count summaries are both provided in Appendix E of this report.

The following bicycle volumes were collected on these roadways:

- Lake Manor Drive – 12 bicyclists during the weekday morning, 12 bicyclists during the weekday mid-late afternoon, and 82 bicyclists during Saturday morning
- Valley Circle Boulevard – 13 bicyclists during the weekday morning, 11 bicyclists during the weekday mid-late afternoon, and 81 bicyclists during Saturday morning
- Roscoe Boulevard– 14 bicyclists during the weekday morning, 14 bicyclists during the weekday mid-late afternoon, and 25 bicyclists during Saturday morning

There are 14 or fewer bicyclists over the four-hour count periods at each of the three count locations, but those volumes are generally concentrated in one of the four hours. The Saturday bicycle activity is much higher than the weekday use of the roadways, but cyclists are present on the roadways in some numbers on both weekdays and weekends. Bicycle volumes are primarily noticeable during the following times on these segments:

- Lake Manor Drive: 830 a.m. hour period, weekday; 8:00 a.m. to 11:00 a.m., Saturday
- Valley Circle Boulevard: 9:00 a.m. hour, weekday; 8:00 a.m. to 10:00 a.m., Saturday
- Roscoe Boulevard: 9:00 a.m. hour and 3:30 p.m. hour periods, weekday; 8:00 a.m. to 11:00 a.m., Saturday

The issues associated with existing bicycle travel and increased truck use of these roadways during the SSFL remediation period are discussed in the following sub-sections, along with any recommended mitigation measures.

Lake Manor Drive

The expected truck trip distribution for the SSFL remediation activities is 10 percent of the total Project trucks volumes. This translates to one or two trucks per hour over a typical eight-hour work day.

The Lake Manor Drive roadway is generally wider than Valley Circle Boulevard and has a lower presence of hills and curves. The roadway has striped shoulders that are potentially used by riders and provide some comfort level. The City of Los Angeles bicycle plan indicates that a bike route (signed only) would be installed on Valley Circle in the future. Due to the low anticipated conflict issues between trucks and bicyclists on this roadway, and bicycle access impacts are considered to be less than significant.

Roscoe Boulevard

Roscoe Boulevard has signed/striped demarcated bicycle lanes and is a major roadway. It also has the lowest number of bicycle riders. Due to the low anticipated conflict issues between trucks and bicyclists on this roadway, and bicycle access impacts are considered to be less than significant.

Valley Circle Boulevard

Valley Circle Boulevard does not have any bicycle lanes or other separated/demarcated bicycle facility, to the north of Roscoe Boulevard, and the roadway can be characterized as a relatively narrow two-lane roadway in a hilly area with curves.

As a majority of the truck trips generated by SSFL remediation activities would travel on Valley Circle Boulevard to reach the Roscoe Boulevard, Topanga Canyon Boulevard, and US-101 and SR-118 corridors, the Valley Circle Roadway could have potential significant bicycle access impacts on weekends. It is therefore recommended that truck activity associated with the remediation activities under the proposed Project be limited to Monday to Friday timeframes only.

Bicycle riders should also be made aware of the presence of the trucking operations on weekdays, within the narrower segment of Valley Circle Boulevard between Roscoe Boulevard and Lake Manor Drive. The recommended additional mitigation measure is the installation of construction warning signs that states this or a similar message at the both ends of this segment: "Truck activity ahead. Bicyclists use caution or alternate route."

12. Congestion Management Plan Conformance

This section demonstrates the ways in which this traffic study was prepared to be in conformance with the procedures mandated by the County of Los Angeles Congestion Management Program (CMP).

The CMP was created statewide by Proposition 111 and was implemented locally by the Los Angeles County Metropolitan Transportation Authority (Metro). The CMP for Los Angeles County requires that the traffic impact of individual development projects of potentially regional significance be analyzed. A specific system of arterial roadways plus all freeways comprises the CMP system. Per CMP Transportation Impact Analysis (TIA) Guidelines, a traffic impact analysis is conducted where:

- At CMP arterial monitoring intersections, including freeway on-ramps or off-ramps, where the proposed project will add 50 or more vehicle trips during either a.m. or p.m. weekday peak hours.

- At CMP mainline freeway-monitoring locations, where the project will add 150 or more trips, in either direction, during either the a.m. or p.m. weekday peak hours.

The nearest CMP arterial monitoring intersections are at Topanga Canyon Boulevard & Roscoe Boulevard, Topanga Canyon Boulevard & Rte. 118 WB Ramps, and Topanga Canyon Boulevard & Victory Boulevard. Based on the project trip generation and the distance of these locations from the project site, it is estimated that only one intersection would have an increase in 50 or more peak-hour vehicle trips. The CMP intersection at Topanga Canyon Boulevard & Roscoe Boulevard would have an increase of 68 new trips during the a.m. peak hour and 68 new trips during the p.m. peak hour due to the Project. Therefore, the Project would create a potential CMP impact at this location.

The nearest freeway monitoring station is located on SR-118 at the Los Angeles/Ventura County Line, which is more than two miles from the project site. The Project is not expected to add more than 150 trips in either direction at this location during either the a.m. or p.m. weekday peak hours. Based on the project trip generation and the distance of this location from the project site, it is estimated that 12 new eastbound trips and 11 new westbound trips during the a.m. peak hour, and 11 new eastbound trips and 12 new westbound trips during the p.m. peak hour would be added at the CMP freeway monitoring station.

13. Conclusions

This section provides major conclusions of the Project remediation traffic analysis. Major analysis assumptions and conclusions are as follows:

- Under the existing analyzed conditions, 11 of the 16 study intersections are operating at LOS D or better during the a.m. and p.m. peak hours. For the analyzed roadway segments, seven of the 11 study segments are operating at LOS D or better during the peak hours.

- Under the future without Project Remediation conditions, four of the 16 study intersections are operating at LOS D or better during the a.m. and p.m. peak hours. For the analyzed roadway segments, six of the 11 study segments are operating at LOS D or better during the peak hours.

- Project remediation activities are anticipated to be completed by the end of year 2032 and consist of a maximum of 96 hauling truck round trips and 250 employee vehicle round trips.

- During the maximum activity period, the Project remediation activities including employee vehicles and haul trucks would generate a daily total of 980 one-way passenger car equivalent trips (incorporating factors for haul truck trips), with 185 trips occurring during both the a.m. and p.m. peak hours (155 inbound and 30 outbound in the a.m. peak hour, and 30 inbound and 155 outbound in the p.m. peak hour).

- The analyzed daily truck trips were based on 96 round-trip truck trips per day, multiplied by two for one-way trips and then multiplied by the applied PCE factor of 2.5, for a total of 480 equivalent trips. An eight-hour truck hauling period was assumed to determine peak-hourly trips.

- The analyzed daily employee one-way trips were based on 250 employees during the peak remediation period, multiplied by two for one-way trips. Half of the employees were assumed to travel to and from the site during the peak hours of traffic.

- Under the Start of Remediation Year 2018 with Project conditions, operations at one of the 16 study intersections would worsen within or to LOS E or F, triggering significant impacts.

- Under the future with Project Remediation conditions, operations at six of the 16 study intersections would worsen within or to LOS E or F, triggering significant impacts.

- Under Start of Remediation Year 2018 with Project Remediation conditions, six of the 11 analyzed roadway segments would worsen or to within LOS E or F, triggering significant impacts.

- Under the Future with Project Remediation conditions, seven of the 11 analyzed roadway segments would worsen or to within LOS E or F, triggering significant impacts.

- Pedestrian access impacts were reviewed for uncontrolled or unmarked crossing points that may need improvement for improved pedestrian safety during the remediation period due to the increased number of trucks that will use these roadways. There would be potentially significant impacts associated with trucks travelling past the Orcutt Ranch Horticultural Center Park (which does not have a controlled or signed/striped pedestrian crossing point near its access point on Roscoe Boulevard). This potential impact would be mitigated to a less-than-significant level by the analysis-identified required measure to install either a signed/striped crosswalk with warning lights or a temporary traffic signal at the intersection of Roscoe Boulevard / Hillary Drive to provide improved safety for crossing pedestrians.

- Bicycle access impacts were reviewed for associated existing bicycle travel and increased truck use of these roadways during the SSFL remediation period. As a great majority of the truck trips generated by project remediation activities would travel on Valley Circle Boulevard (which is relatively narrow and hilly with curves, with no striped bicycle lanes north of Roscoe Boulevard), the potential for safety conflicts between trucks and bicyclists on this roadway is considered a significant impact. This impact would be mitigated to a less-than-significant level by the following analysis-identified required measures: (1) limit truck activity associated with the remediation activities under the proposed project to weekdays (Monday to Friday) only, avoiding the heaviest period of bicycle use on weekend days, (2) install warning signs that state: "Truck activity ahead. Bicyclists use caution or alternative route." and (3) alert project contractors/truck drivers to the presence of bicyclists on area roadways, particularly on the 1.1-mile segment of Valley Circle Boulevard between Woolsey Canyon Road and Roscoe Boulevard.

APPENDIX A
Level-of-Service Definitions

CMA METHODLOGY FOR SIGNALIZED INTERSECTIONS

The City of Los Angeles Department of Transportation (LADOT) specifies that the Transportation Research Board Critical Movement Analysis (CMA), Circular 212 Method, be used to analyze traffic operating conditions at signalized intersections. The CMA analysis method for evaluating signalized intersections involves the computation of volume-to-capacity (V/C) ratios for each critical movement. Capacity, or saturation flow rate, is defined as the maximum rate of flow that can pass through a given intersection approach under prevailing traffic and roadway conditions. The sum of all critical movements on a critical lane basis is used to determine the total intersection volume to capacity ratio (V/C) and corresponding Level-of-Service A facility is "at capacity" (v/c of 1.00 or greater) when extreme congestion occurs. This volume/capacity ratio value is based upon volumes by lane, signal phases, and approach lane configuration.

CIRCULAR 212 METHODLOGY FOR SIGNALIZED INTERSECTIONS

For analysis of Level of Service (LOS) at signalized intersections, LADOT has designated the Circular 212 Planning methodology as the desired tool. The concept of roadway level of service under the Circular 212 method is calculated as the volume of vehicles that pass through the facility divided by the capacity of that facility. A facility is "at capacity" (V/C of 1.00 or greater) when extreme congestion occurs. This volume/capacity ratio value is a function of hourly volumes, signal phasing, and approach lane configuration on each leg of the intersection.

Level of service (LOS) values range from LOS A to LOS F. LOS A indicates excellent operating conditions with little delay to motorists, whereas LOS F represents congested conditions with excessive vehicle delay. LOS E is typically defined as the operating "capacity" of a roadway.

The following describes the general roadway operations for each LOS value, as defined within the *Highway Capacity Manual* (published by the Transportation Research Board).

APPENDIX A
Level-of-Service Definitions (continued)

DEFINITIONS OF LEVEL OF SERVICE AND V/C RANGES FOR ROADWAY SIGNALIZED INTERSECTIONS

Level of Service	Volume/Capacity Ratio	Definition
A	0.000 - 0.600	EXCELLENT. No vehicle waits longer than one Red light and no approach phase is fully used.
B	0.601 - 0.700	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.
C	0.701 – 0.800	GOOD. Occasionally, drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	0.801 – 0.900	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	0.900 – 1.00	POOR. Represents the most vehicles that intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	Greater than 1.000	FAILURE. Backups from nearby intersections or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.

DEFINITIONS OF LEVEL OF SERVICE
VEHICLE DELAY RANGES FOR
ROADWAY UNSIGNALIZED INTERSECTIONS

Level of Service (LOS)	Signalized Intersection Average Delay per Vehicle (sec.)
A	< 10
B	> 10 and < 20
C	> 20 and < 35
D	> 35 and < 55
E	> 55 and < 80
F	> 80

APPENDIX B
Traffic Count Data

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-001 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	SR-27			SR-27			SR-118 WB Ramps			SR-118 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	1	0	0	1	0	0	0	0	1.5	0.5	1	
7:00 AM	99	3	0	0	46	6	0	0	0	321	0	3	478
7:15 AM	95	7	0	0	47	3	0	0	0	326	0	4	482
7:30 AM	140	13	0	0	54	12	0	0	0	350	0	4	573
7:45 AM	97	25	0	0	36	5	0	0	0	364	0	12	539
8:00 AM	101	5	0	0	36	8	0	0	0	380	0	11	541
8:15 AM	109	8	0	0	39	5	0	0	0	282	1	8	452
8:30 AM	63	9	0	0	42	4	0	0	0	274	0	9	401
8:45 AM	95	9	0	0	25	5	0	0	0	269	0	7	410
9:00 AM	96	7	0	0	20	2	0	0	0	262	0	11	398
9:15 AM	91	8	0	0	26	7	0	0	0	242	0	7	381
9:30 AM	99	6	0	0	29	3	0	0	0	253	0	10	400
9:45 AM	70	9	0	0	24	3	0	0	0	221	2	6	335
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	1155	109	0	0	424	63	0	0	0	3544	3	92	5390
APPROACH %'s :	91.38%	8.62%	0.00%	0.00%	87.06%	12.94%	#DIV/0!	#DIV/0!	#DIV/0!	97.39%	0.08%	2.53%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	433	50	0	0	173	28	0	0	0	1420	0	31	2135
PEAK HR FACTOR :		0.789			0.761			0.000			0.928		0.932

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-001 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	SR-27			SR-27			SR-118 WB Ramps			SR-118 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	2	1	0	0	1	0	0	0	0	1.5	0.5	1	
3:00 PM	181	20	0	0	27	2	0	0	0	235	0	15	480
3:15 PM	172	24	0	0	19	1	0	0	0	266	0	24	506
3:30 PM	193	15	0	0	30	4	0	0	0	222	0	19	483
3:45 PM	189	16	0	0	26	4	0	0	0	281	0	20	536
4:00 PM	203	26	0	0	19	0	0	0	0	227	0	7	482
4:15 PM	251	12	0	0	26	2	0	0	0	246	0	17	554
4:30 PM	222	19	0	0	28	5	0	0	0	289	1	22	586
4:45 PM	237	18	0	0	32	7	0	0	0	245	0	26	565
5:00 PM	251	20	0	0	23	1	0	0	0	313	0	21	629
5:15 PM	258	20	0	0	23	8	0	0	0	271	0	24	604
5:30 PM	242	22	0	0	16	3	0	0	0	272	1	20	576
5:45 PM	255	21	0	0	18	2	0	0	0	224	0	26	546
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	2654	233	0	0	287	39	0	0	0	3091	2	241	6547
APPROACH %'s :	91.93%	8.07%	0.00%	0.00%	88.04%	11.96%	#DIV/0!	#DIV/0!	#DIV/0!	92.71%	0.06%	7.23%	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	968	77	0	0	106	21	0	0	0	1118	1	93	2384
PEAK HR FACTOR :		0.940			0.814			0.000			0.907		0.948

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

SR-27 and SR-118 WB Ramps , Chatsworth

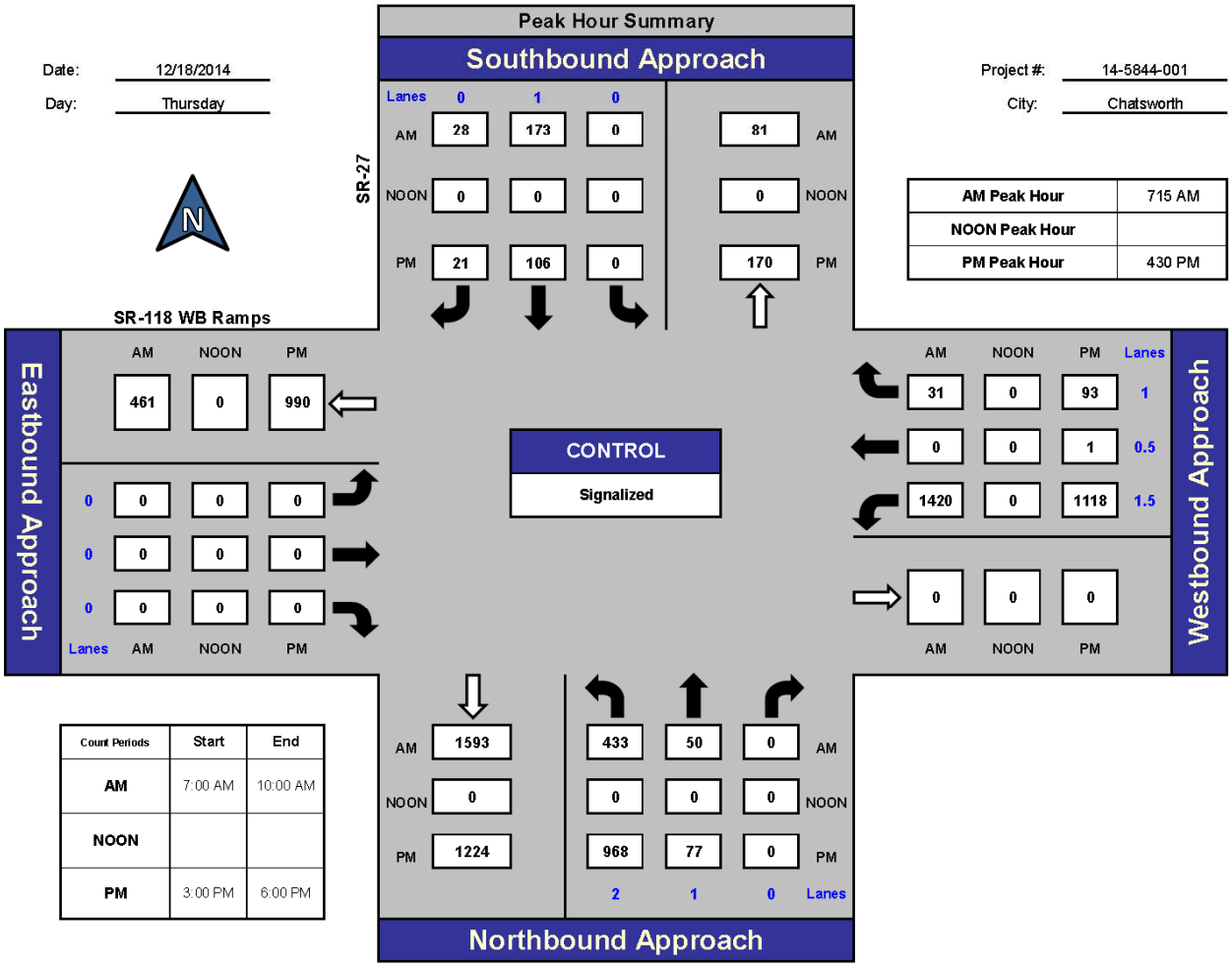
Date: 12/18/2014

Day: Thursday

Project #: 14-5844-001

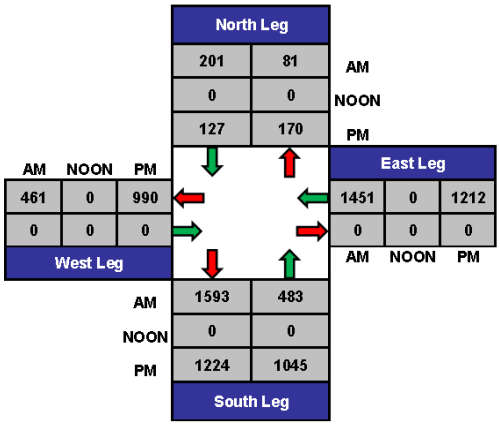
City: Chatsworth

AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	430 PM

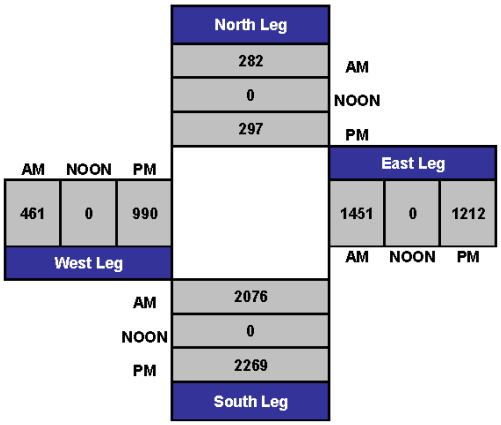


Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-002 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	SR-27			SR-27			SR-118 EB Ramps			SR-118 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	2	0.5	0.5	0	0	0	
7:00 AM	0	97	283	38	350	0	0	0	217	0	0	0	985
7:15 AM	0	109	298	37	319	0	0	1	255	0	0	0	1019
7:30 AM	0	143	246	29	369	0	3	3	231	0	0	0	1024
7:45 AM	0	127	260	29	383	0	2	0	208	0	0	0	1009
8:00 AM	0	103	265	22	380	0	3	5	223	0	0	0	1001
8:15 AM	0	98	253	26	305	0	2	2	199	0	0	0	885
8:30 AM	0	82	254	22	290	0	3	0	189	0	0	0	840
8:45 AM	0	100	215	18	280	0	4	0	174	0	0	0	791
9:00 AM	0	107	242	12	264	0	1	1	159	0	0	0	786
9:15 AM	0	89	216	21	260	0	3	0	170	0	0	0	759
9:30 AM	0	102	195	24	240	0	4	1	142	0	0	0	708
9:45 AM	0	72	200	15	234	0	3	0	140	0	0	0	664
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	1229	2927	293	3674	0	28	13	2307	0	0	0	10471
APPROACH %'s :	0.00%	29.57%	70.43%	7.39%	92.61%	0.00%	1.19%	0.55%	98.25%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	0	482	1069	117	1451	0	8	9	917	0	0	0	4053
PEAK HR FACTOR :		0.953			0.951			0.912			0.000		0.990

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-002 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	SR-27			SR-27			SR-118 EB Ramps			SR-118 EB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	2	0	2	0.5	0.5	0	0	0	
3:00 PM	0	195	371	20	254	0	2	2	123	0	0	0	967
3:15 PM	0	190	311	17	254	0	7	1	141	0	0	0	921
3:30 PM	0	202	336	16	263	0	2	0	139	0	0	0	958
3:45 PM	0	223	319	17	273	0	7	0	142	0	0	0	981
4:00 PM	0	209	317	20	253	0	5	0	147	0	0	0	951
4:15 PM	0	268	328	12	246	0	1	1	142	0	0	0	998
4:30 PM	0	233	310	18	283	0	6	0	173	0	0	0	1023
4:45 PM	0	252	304	19	271	0	5	0	155	0	0	0	1006
5:00 PM	0	265	283	11	295	0	6	0	188	0	0	0	1048
5:15 PM	0	241	285	15	282	0	7	0	148	0	0	0	978
5:30 PM	0	267	280	16	252	0	7	0	156	0	0	0	978
5:45 PM	0	254	293	17	235	0	8	0	135	0	0	0	942
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	2799	3737	198	3161	0	63	4	1789	0	0	0	11751
APPROACH %'s :	0.00%	42.82%	57.18%	5.89%	94.11%	0.00%	3.39%	0.22%	96.39%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	415 PM												TOTAL
PEAK HR VOL :	0	1018	1225	60	1095	0	18	1	658	0	0	0	4075
PEAK HR FACTOR :		0.941			0.944			0.872			0.000		0.972

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

SR-27 and SR-118 EB Ramps , Chatsworth

Date: 12/18/2014
Day: Thursday

Project #: 14-5844-002
City: Chatsworth

AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Peak Hour Summary

Southbound Approach

Lanes	0	2	1		
AM	0	1451	117	490	AM
NOON	0	0	0	0	NOON
PM	0	1095	60	1036	PM

SR-27

SR-118 EB Ramps

Eastbound Approach

Lanes	AM	NOON	PM
	0	0	0
2	8	0	18
0.5	9	0	1
0.5	917	0	658
Lanes	AM	NOON	PM

CONTROL

Signalized

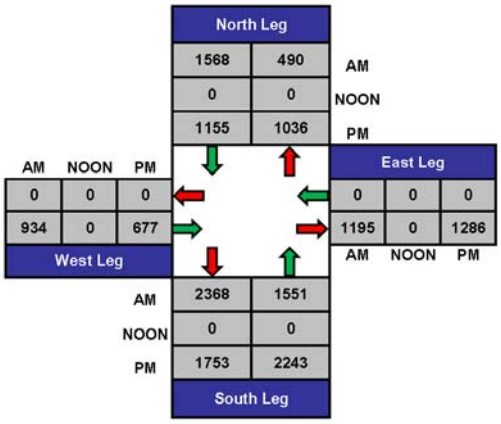
Westbound Approach

Lanes	AM	NOON	PM
0	0	0	0
0	0	0	0
0	0	0	0
	1195	0	1286
	AM	NOON	PM

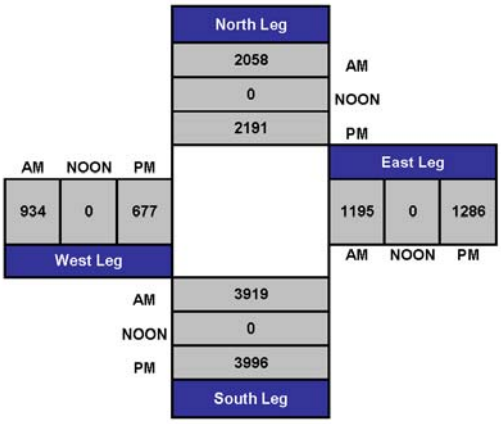
Northbound Approach

AM	2368	0	482	1069	AM
NOON	0	0	0	0	NOON
PM	1753	0	1018	1225	PM
		1	2	0 Lanes	

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-004 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	Rocky Peak Rd			Rocky Peak Rd			SR-118 WB Ramps			SR-118 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	0	0	0	1	0.5	0.5	
7:00 AM	9	0	0	0	0	0	0	0	0	13	0	0	22
7:15 AM	30	0	0	0	1	0	0	0	0	17	0	1	49
7:30 AM	21	0	0	0	1	0	0	0	0	27	0	0	49
7:45 AM	18	1	0	0	2	2	0	0	0	28	0	4	55
8:00 AM	27	1	0	0	1	1	0	0	0	37	0	2	69
8:15 AM	14	2	0	0	1	0	0	0	0	25	0	1	43
8:30 AM	8	0	0	0	1	1	0	0	0	22	2	1	35
8:45 AM	11	0	0	0	0	1	0	0	0	21	0	0	33
9:00 AM	9	0	0	0	0	1	0	0	0	20	1	1	32
9:15 AM	8	1	0	0	1	0	0	0	0	24	0	1	35
9:30 AM	5	1	0	0	2	0	0	0	0	16	0	1	25
9:45 AM	9	1	0	0	0	1	0	0	0	13	1	0	25
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	169	7	0	0	10	7	0	0	0	263	4	12	472
APPROACH %'s :	96.02%	3.98%	0.00%	0.00%	58.82%	41.18%	#DIV/0!	#DIV/0!	#DIV/0!	94.27%	1.43%	4.30%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	96	2	0	0	5	3	0	0	0	109	0	7	222
PEAK HR FACTOR :	0.817			0.500			0.000			0.744			0.804

CONTROL : 1 way Stop (WB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-004 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	Rocky Peak Rd			Rocky Peak Rd			SR-118 WB Ramps			SR-118 WB Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	0	0	0	0	1	0.5	0.5	
3:00 PM	13	0	0	0	0	0	0	0	0	20	0	0	33
3:15 PM	12	0	0	0	0	0	0	0	0	14	0	2	28
3:30 PM	14	1	0	0	0	1	0	0	0	24	4	0	44
3:45 PM	11	0	0	0	0	4	0	0	0	19	0	6	40
4:00 PM	13	2	0	0	1	3	0	0	0	25	1	0	45
4:15 PM	16	2	0	0	1	3	0	0	0	21	0	1	44
4:30 PM	31	1	0	0	0	2	0	0	0	32	0	1	67
4:45 PM	19	0	0	0	3	2	0	0	0	19	0	1	44
5:00 PM	34	0	0	0	1	3	0	0	0	16	0	1	55
5:15 PM	23	1	0	0	0	1	0	0	0	19	0	1	45
5:30 PM	37	0	0	0	0	1	0	0	0	24	1	1	64
5:45 PM	15	0	0	0	0	1	0	0	0	20	0	1	37
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	238	7	0	0	6	21	0	0	0	253	6	15	546
APPROACH %'s :	97.14%	2.86%	0.00%	0.00%	22.22%	77.78%	#DIV/0!	#DIV/0!	#DIV/0!	92.34%	2.19%	5.47%	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	107	2	0	0	4	8	0	0	0	86	0	4	211
PEAK HR FACTOR :		0.801			0.600			0.000			0.682		0.787

CONTROL : 1 way Stop (WB)

ITM Peak Hour Summary

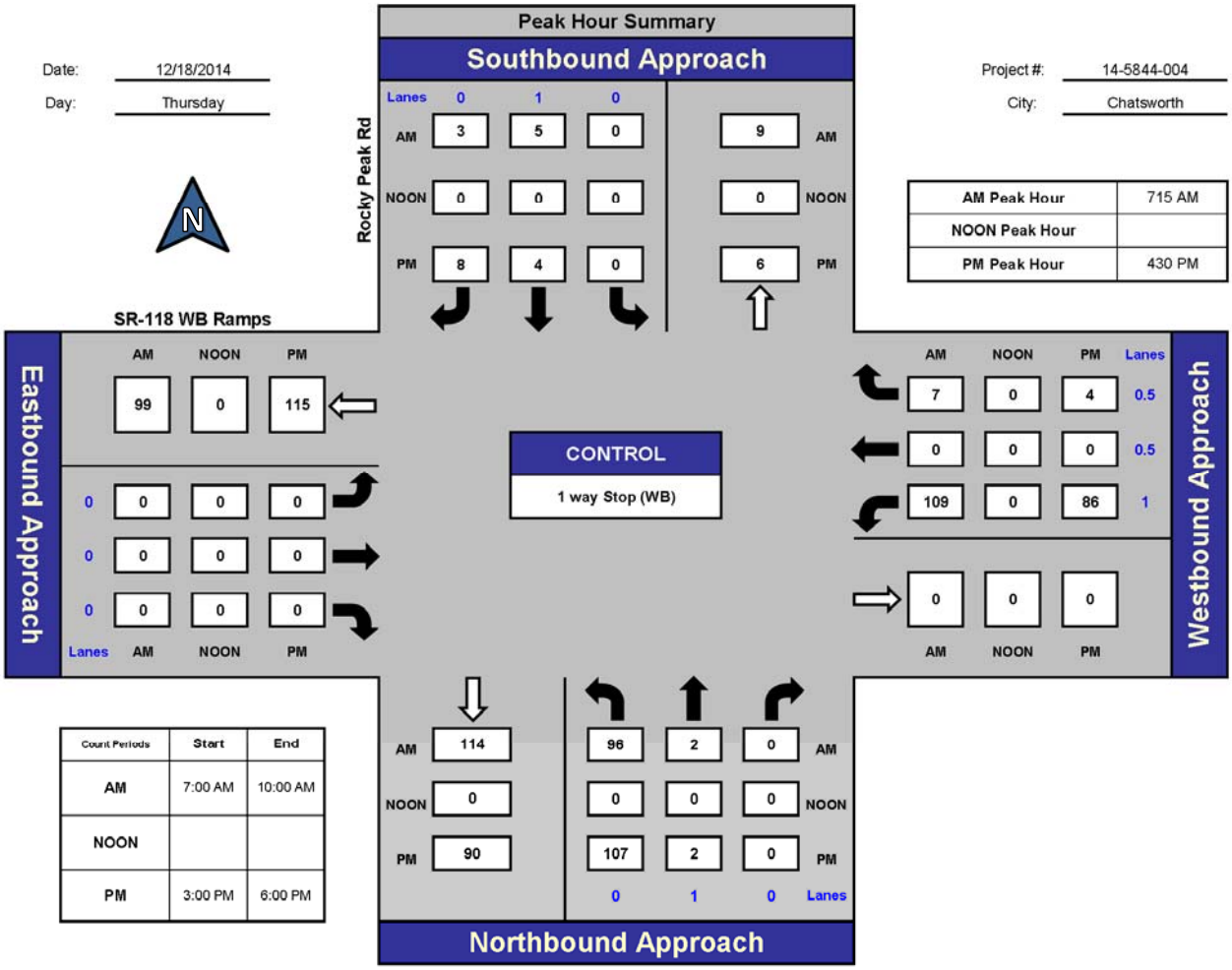
Prepared by:

National Data & Surveying Services

Rocky Peak Rd and SR-118 WB Ramps , Chatsworth

Date: 12/18/2014
Day: Thursday

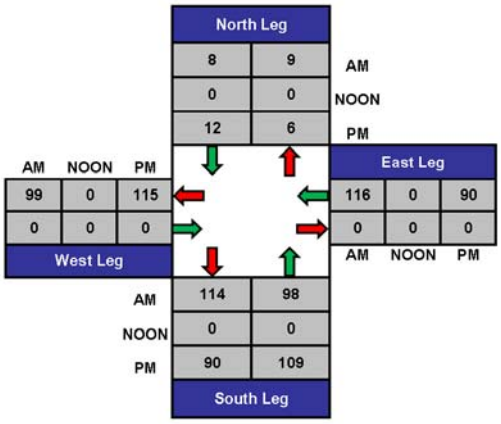
Project #: 14-5844-004
City: Chatsworth



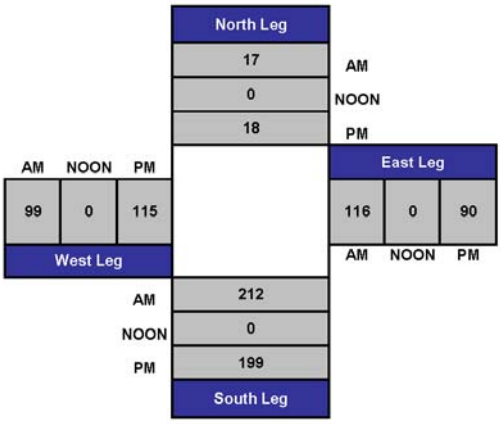
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	430 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-003 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	Rocky Peak Rd			Rocky Peak Rd			Santa Susana Pass Rd			Santa Susana Pass Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	0	0	0	1	0	0	1	0	0	1	0	
7:00 AM	0	0	0	6	0	39	33	10	0	0	4	6	98
7:15 AM	0	0	0	0	0	44	32	4	0	0	7	12	99
7:30 AM	0	0	0	11	1	46	39	9	0	0	2	15	123
7:45 AM	1	1	0	8	1	31	41	7	2	0	4	6	102
8:00 AM	0	0	1	7	1	49	40	11	0	0	1	12	122
8:15 AM	0	0	0	2	0	41	26	6	0	0	3	9	87
8:30 AM	0	0	0	4	0	29	28	6	1	0	3	4	75
8:45 AM	0	1	0	4	0	25	17	3	0	0	2	4	56
9:00 AM	1	1	0	2	0	19	18	6	1	0	1	2	51
9:15 AM	0	2	0	3	0	25	12	6	0	0	4	2	54
9:30 AM	0	0	0	1	0	22	15	3	0	0	4	0	45
9:45 AM	0	1	0	5	1	13	16	5	0	0	6	4	51
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	2	6	1	53	4	383	317	76	4	0	41	76	963
APPROACH %'s :	22.22%	66.67%	11.11%	12.05%	0.91%	87.05%	79.85%	19.14%	1.01%	0.00%	35.04%	64.96%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	1	1	1	26	3	170	152	31	2	0	14	45	446
PEAK HR FACTOR :	0.375			0.858			0.907			0.776			0.907

CONTROL : 1 way Stop (SB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-003

Day: Thursday

City: Chatsworth

Date: 12/18/2014

PM

NS/EW Streets:	Rocky Peak Rd			Rocky Peak Rd			Santa Susana Pass Rd			Santa Susana Pass Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	0	0	0	1	0	0	1	0	0	1	0	
3:00 PM	2	3	1	4	1	21	28	5	2	0	7	2	76
3:15 PM	0	2	0	1	1	16	27	6	0	0	9	6	68
3:30 PM	1	0	0	2	0	31	32	8	0	0	12	3	89
3:45 PM	0	0	0	3	0	29	15	5	0	0	5	6	63
4:00 PM	1	0	0	1	1	31	31	5	1	0	10	3	84
4:15 PM	1	1	0	1	3	20	36	7	0	0	13	4	86
4:30 PM	0	2	1	3	1	41	42	9	1	0	19	12	131
4:45 PM	0	0	0	2	0	25	31	4	0	0	10	9	81
5:00 PM	0	0	0	4	1	20	39	12	0	0	13	21	110
5:15 PM	0	0	0	5	1	25	30	4	0	0	12	11	88
5:30 PM	1	3	0	2	0	27	42	6	0	0	14	19	114
5:45 PM	1	1	0	1	2	29	29	5	1	0	15	6	90
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	7	12	2	29	11	315	382	76	5	0	139	102	1080
APPROACH %'s :	33.33%	57.14%	9.52%	8.17%	3.10%	88.73%	82.51%	16.41%	1.08%	0.00%	57.68%	42.32%	
PEAK HR START TIME :	430 PM												TOTAL
PEAK HR VOL :	0	2	1	14	3	111	142	29	1	0	54	53	410
PEAK HR FACTOR :		0.250			0.711			0.827			0.787		0.782

CONTROL : 1 way Stop (SB)

ITM Peak Hour Summary

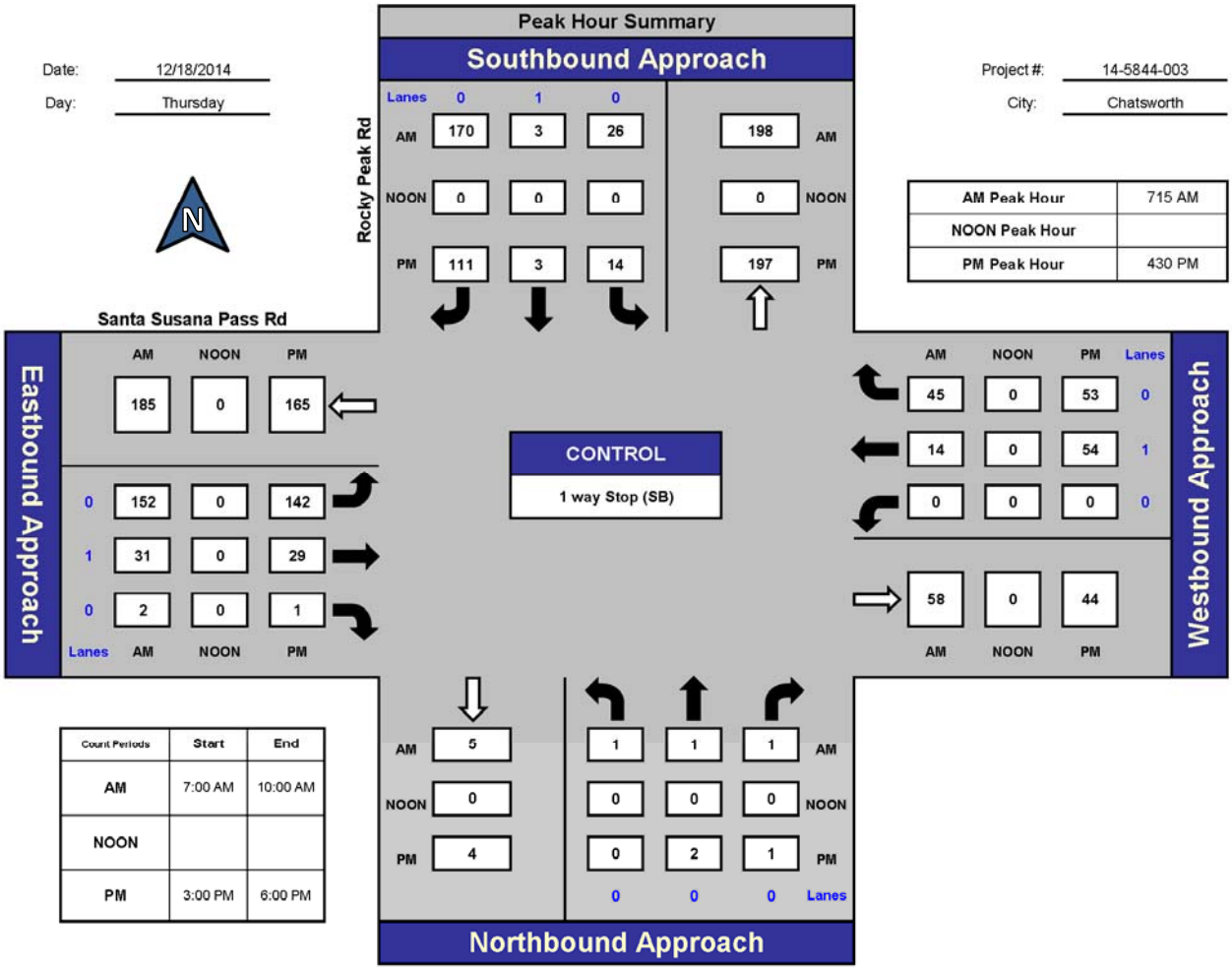
Prepared by:

National Data & Surveying Services

Rocky Peak Rd and Santa Susana Pass Rd , Chatsworth

Date: 12/18/2014
Day: Thursday

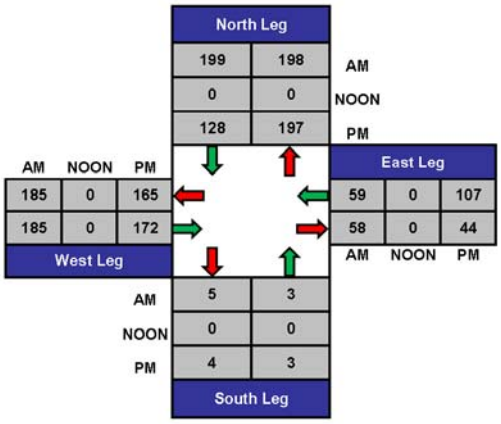
Project #: 14-5844-003
City: Chatsworth



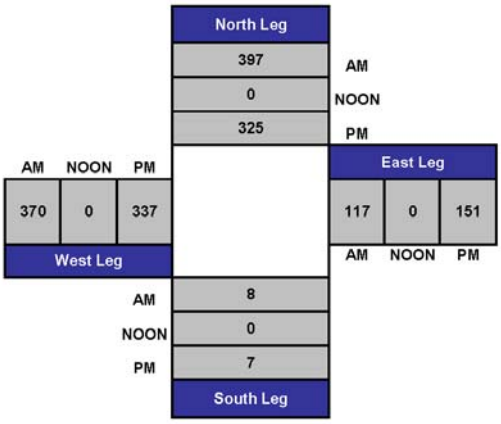
Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	430 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-005 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	SR-27			SR-27			Plummer St			Plummer St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	0	1.5	0.5	1	1	2	0	
7:00 AM	4	296	10	20	410	28	68	25	43	3	3	9	919
7:15 AM	4	368	9	13	526	31	62	28	53	5	5	6	1110
7:30 AM	9	343	12	22	481	25	63	30	63	12	8	4	1072
7:45 AM	14	314	21	19	470	20	71	38	57	4	7	10	1045
8:00 AM	12	303	18	19	409	36	79	40	57	7	4	11	995
8:15 AM	16	298	17	13	490	34	54	23	41	3	6	7	1002
8:30 AM	14	255	11	18	415	30	46	24	46	2	5	14	880
8:45 AM	16	263	14	12	457	28	23	12	27	1	6	12	871
9:00 AM	16	262	7	23	411	28	29	24	33	5	4	14	856
9:15 AM	8	267	10	18	403	23	24	16	33	3	5	12	822
9:30 AM	11	249	7	15	348	27	26	12	29	3	9	13	749
9:45 AM	13	223	6	14	417	20	24	11	28	3	5	13	777
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	137	3441	142	206	5237	330	569	283	510	51	67	125	11098
APPROACH %'s :	3.68%	92.50%	3.82%	3.57%	90.72%	5.72%	41.78%	20.78%	37.44%	20.99%	27.57%	51.44%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	39	1328	60	73	1886	112	275	136	230	28	24	31	4222
PEAK HR FACTOR :		0.936			0.908			0.911			0.865		0.951

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-005 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	SR-27			SR-27			Plummer St			Plummer St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	0	1.5	0.5	1	1	2	0	
3:00 PM	27	421	16	12	388	34	14	13	25	6	18	22	996
3:15 PM	26	416	7	10	357	40	17	7	29	8	14	21	952
3:30 PM	27	438	7	10	370	34	32	6	18	6	14	20	982
3:45 PM	29	429	32	12	382	49	32	17	25	7	17	27	1058
4:00 PM	29	397	15	13	378	49	27	10	14	12	14	33	991
4:15 PM	32	427	25	8	407	45	33	12	21	14	17	24	1065
4:30 PM	39	401	15	7	335	54	17	19	37	10	24	25	983
4:45 PM	27	395	11	4	423	52	37	9	30	13	27	23	1051
5:00 PM	22	405	6	4	388	36	36	16	25	13	42	24	1017
5:15 PM	28	416	24	4	446	44	31	16	29	5	30	21	1094
5:30 PM	32	390	32	10	423	46	30	10	30	12	34	22	1071
5:45 PM	29	403	5	3	375	52	38	8	20	15	20	11	979
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	347	4938	195	97	4672	535	344	143	303	121	271	273	12239
APPROACH %'s :	6.33%	90.11%	3.56%	1.83%	88.08%	10.09%	43.54%	18.10%	38.35%	18.20%	40.75%	41.05%	
PEAK HR START TIME :	445 PM												TOTAL
PEAK HR VOL :	109	1606	73	22	1680	178	134	51	114	43	133	90	4233
PEAK HR FACTOR :		0.955			0.951			0.971			0.842		0.967

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

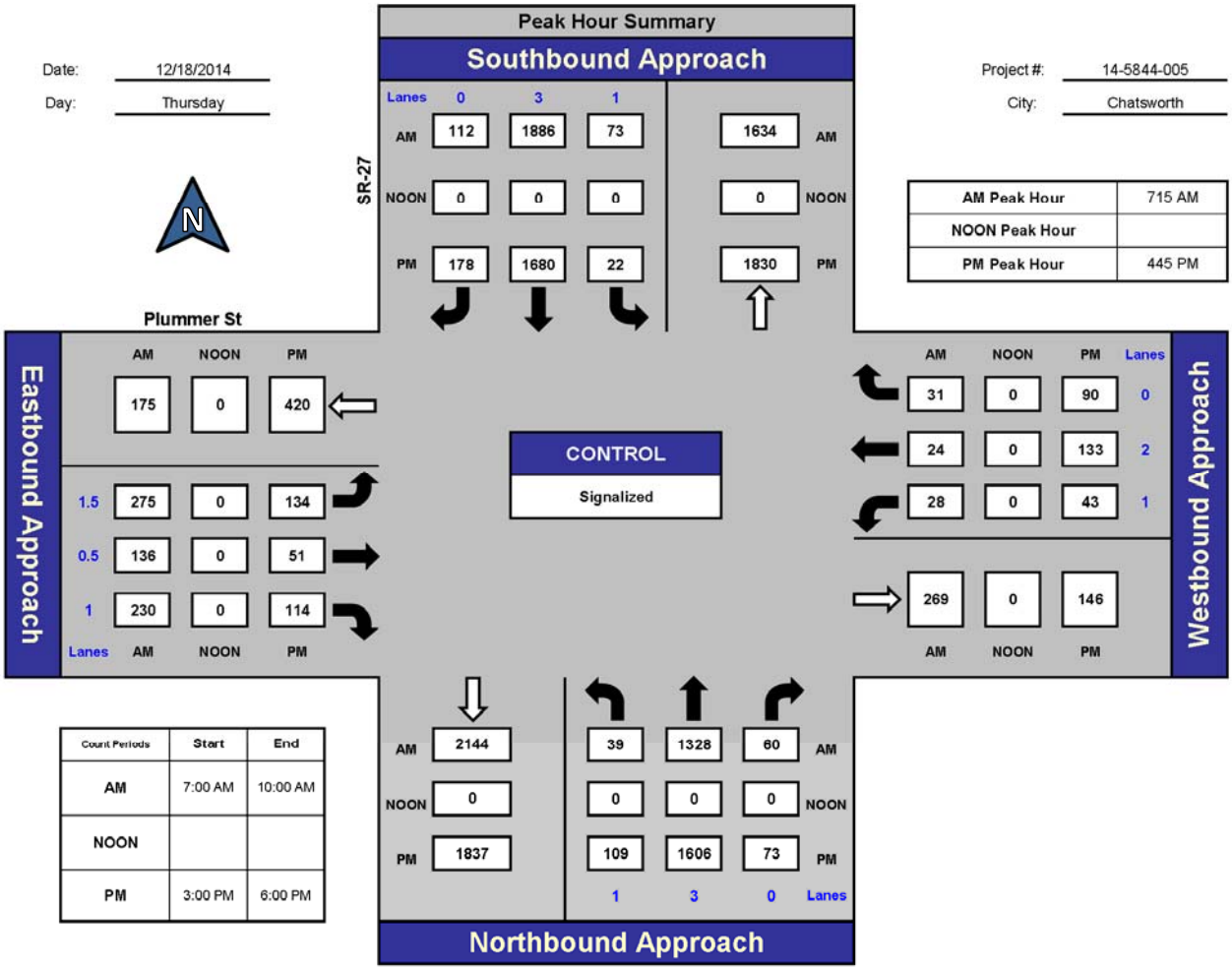
National Data & Surveying Services

SR-27 and Plummer St , Chatsworth

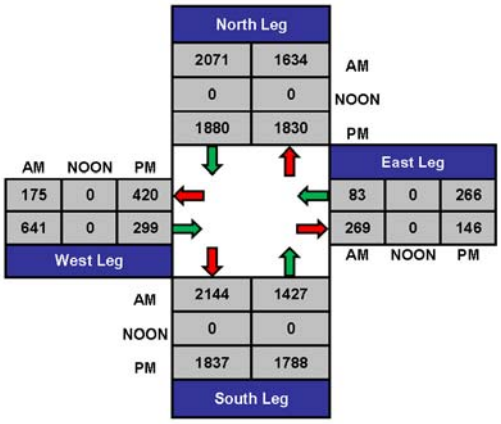
Date: 12/18/2014
Day: Thursday

Project #: 14-5844-005
City: Chatsworth

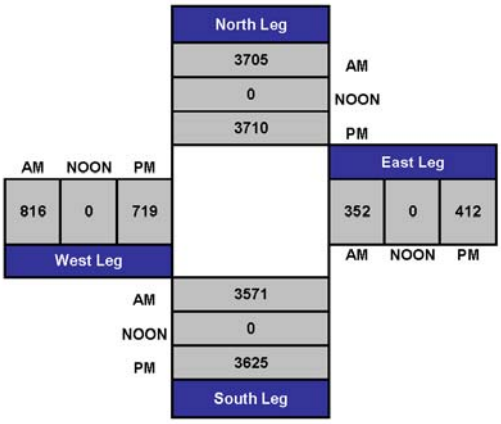
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	445 PM



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-008 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Woolsey Canyon Rd			Woolsey Canyon Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	1	0	1	0	0	0	0	
7:00 AM	5	59	0	0	157	3	15	0	33	0	0	0	272
7:15 AM	4	92	0	0	177	5	8	0	28	0	0	0	314
7:30 AM	8	112	0	0	165	2	13	0	20	0	0	0	320
7:45 AM	12	142	0	0	151	5	15	0	37	0	0	0	362
8:00 AM	11	102	0	0	158	8	5	0	30	0	0	0	314
8:15 AM	10	80	0	0	161	5	3	0	11	0	0	0	270
8:30 AM	5	46	0	0	115	3	6	0	11	0	0	0	186
8:45 AM	4	48	0	0	90	2	6	0	11	0	0	0	161
9:00 AM	3	37	0	0	78	4	6	0	10	0	0	0	138
9:15 AM	8	44	0	0	59	1	3	0	15	0	0	0	130
9:30 AM	8	43	0	0	70	3	5	0	11	0	0	0	140
9:45 AM	7	69	0	0	47	2	5	0	10	0	0	0	140
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	85	874	0	0	1428	43	90	0	227	0	0	0	2747
APPROACH %'s :	8.86%	91.14%	0.00%	0.00%	97.08%	2.92%	28.39%	0.00%	71.61%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	35	448	0	0	651	20	41	0	115	0	0	0	1310
PEAK HR FACTOR :		0.784			0.922			0.750			0.000		0.905

CONTROL : 3 Way Stop (NB, SB & EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-008 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Woolsey Canyon Rd			Woolsey Canyon Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1	0	0	1	1	0	1	0	0	0	0	
3:00 PM	15	78	0	0	65	5	3	0	11	0	0	0	177
3:15 PM	20	123	0	0	66	3	4	0	18	0	0	0	234
3:30 PM	19	112	0	0	50	4	7	0	13	0	0	0	205
3:45 PM	21	117	0	0	74	13	10	0	16	0	0	0	251
4:00 PM	22	126	0	0	53	7	11	0	19	0	0	0	238
4:15 PM	25	148	0	0	71	11	16	0	29	0	0	0	300
4:30 PM	16	105	0	0	72	12	6	0	18	0	0	0	229
4:45 PM	19	128	0	0	49	9	6	0	13	0	0	0	224
5:00 PM	34	133	0	0	59	9	7	0	21	0	0	0	263
5:15 PM	23	182	0	0	57	5	7	0	13	0	0	0	287
5:30 PM	22	142	0	0	63	9	11	0	8	0	0	0	255
5:45 PM	17	104	0	0	51	9	4	0	7	0	0	0	192
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	253	1498	0	0	730	96	92	0	186	0	0	0	2855
APPROACH %'s :	14.45%	85.55%	0.00%	0.00%	88.38%	11.62%	33.09%	0.00%	66.91%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	445 PM												TOTAL
PEAK HR VOL :	98	585	0	0	228	32	31	0	55	0	0	0	1029
PEAK HR FACTOR :		0.833			0.903			0.768			0.000		0.896

CONTROL : 3 Way Stop (NB, SB & EB)

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

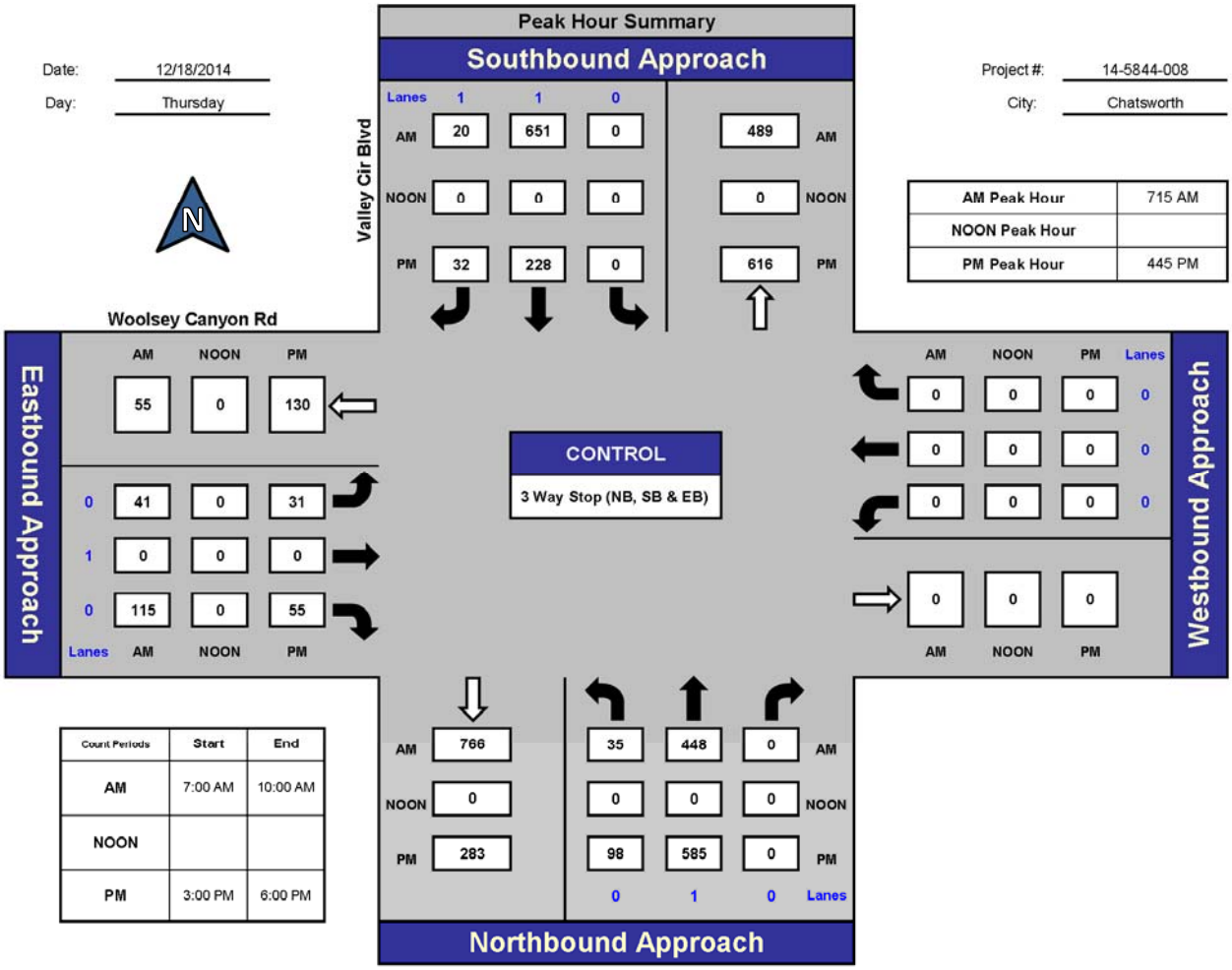
Valley Cir Blvd and Woolsey Canyon Rd , Chatsworth

Date: 12/18/2014

Day: Thursday

Project #: 14-5844-008

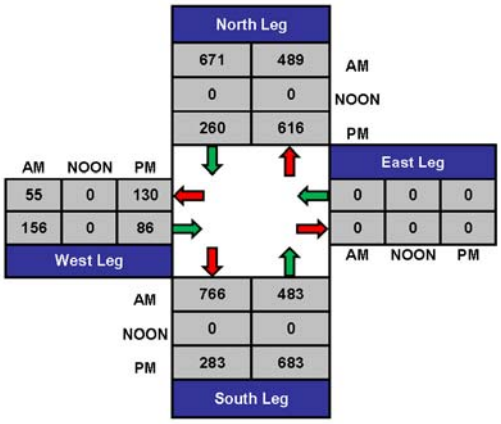
City: Chatsworth



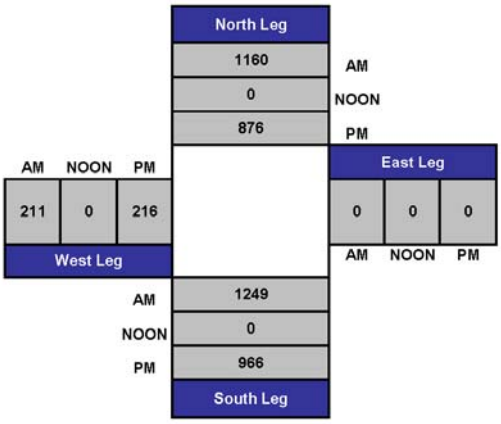
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	445 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-006 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Roscoe Blvd			Roscoe Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	0	2	0	1	1	0	1	1	1	
7:00 AM	1	55	38	69	124	0	0	0	0	73	0	14	374
7:15 AM	1	77	60	85	143	0	0	0	0	90	0	19	475
7:30 AM	0	98	78	105	130	0	0	1	0	100	0	32	544
7:45 AM	2	124	67	100	99	0	0	0	1	46	0	28	467
8:00 AM	0	73	47	81	112	2	3	2	0	43	1	28	392
8:15 AM	0	60	37	55	123	0	1	0	0	60	0	18	354
8:30 AM	1	38	31	47	87	0	0	1	0	38	0	14	257
8:45 AM	0	39	33	27	87	0	0	1	1	51	2	13	254
9:00 AM	0	33	33	36	71	0	1	0	0	30	0	16	220
9:15 AM	0	35	39	25	57	0	0	0	1	34	0	23	214
9:30 AM	0	42	34	27	58	0	0	1	0	27	0	17	206
9:45 AM	0	46	36	22	46	0	0	0	0	19	0	19	188
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	5	720	533	679	1137	2	5	6	3	611	3	241	3945
APPROACH %'s :	0.40%	57.23%	42.37%	37.35%	62.54%	0.11%	35.71%	42.86%	21.43%	71.46%	0.35%	28.19%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	3	372	252	371	484	2	3	3	1	279	1	107	1878
PEAK HR FACTOR :		0.812			0.912			0.350			0.733		0.863

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-006 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Roscoe Blvd			Roscoe Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	0	2	0	1	1	0	1	1	1	
3:00 PM	2	73	70	28	53	1	0	0	1	67	0	41	336
3:15 PM	1	100	77	32	58	0	0	2	1	41	0	50	362
3:30 PM	0	99	68	30	42	0	0	0	0	37	1	53	330
3:45 PM	0	95	68	34	60	1	0	2	0	44	0	56	360
4:00 PM	1	105	52	27	43	0	0	0	0	39	0	54	321
4:15 PM	0	90	56	39	62	0	0	1	1	51	0	68	368
4:30 PM	1	95	54	35	54	0	0	1	1	41	0	59	341
4:45 PM	2	105	77	29	41	1	0	0	0	53	1	64	373
5:00 PM	1	112	58	33	42	2	0	1	2	50	0	82	383
5:15 PM	1	122	65	33	49	0	1	0	2	34	1	77	385
5:30 PM	1	119	56	26	55	0	0	0	0	50	0	59	366
5:45 PM	3	70	59	20	46	0	0	0	1	49	1	53	302
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	13	1185	760	366	605	5	1	7	9	556	4	716	4227
APPROACH %'s :	0.66%	60.52%	38.82%	37.50%	61.99%	0.51%	5.88%	41.18%	52.94%	43.57%	0.31%	56.11%	
PEAK HR START TIME :	445 PM												TOTAL
PEAK HR VOL :	5	458	256	121	187	3	1	1	4	187	2	282	1507
PEAK HR FACTOR :		0.956			0.948			0.500			0.892		0.979

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

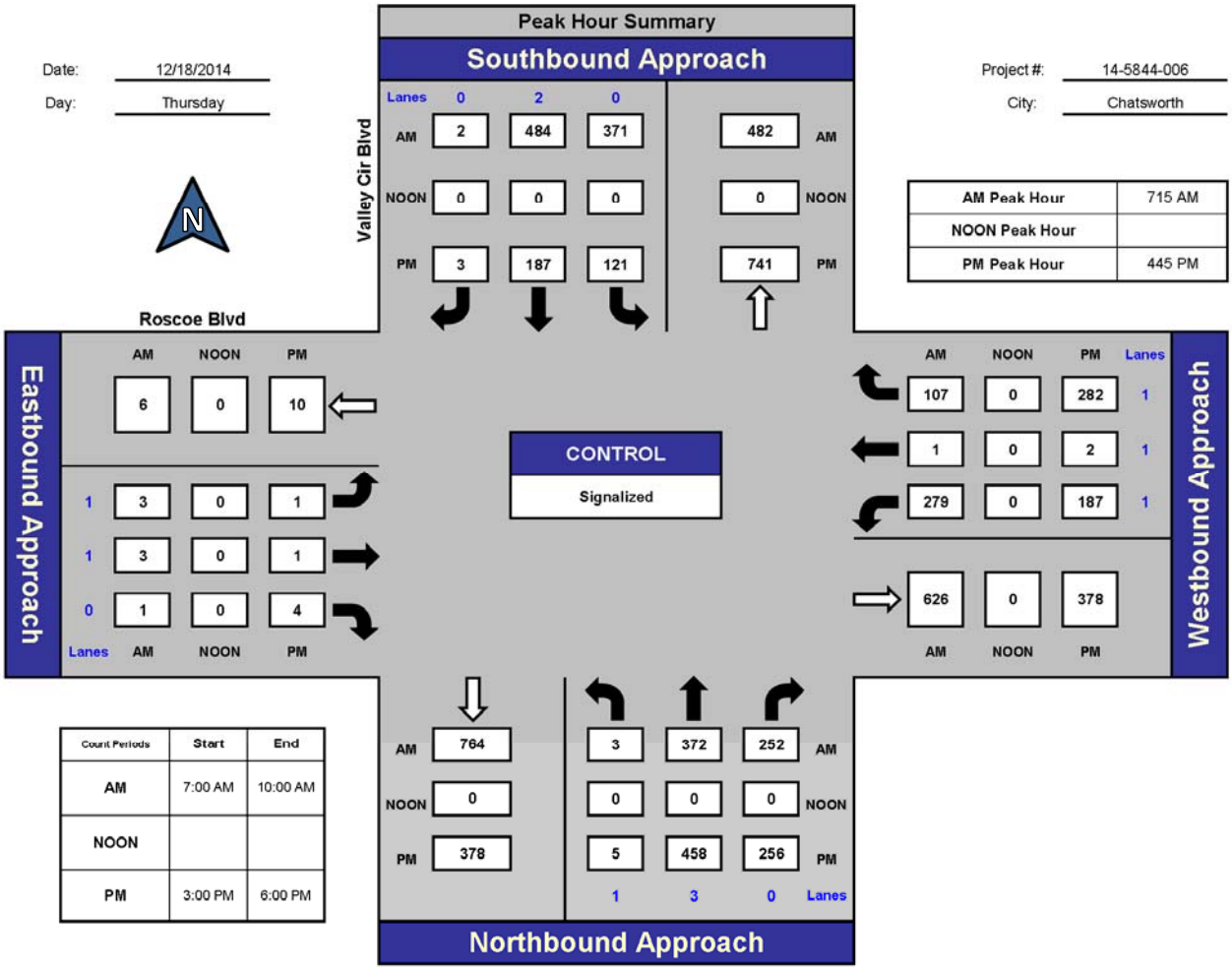
Valley Cir Blvd and Roscoe Blvd , Chatsworth

Date: 12/18/2014

Day: Thursday

Project #: 14-5844-006

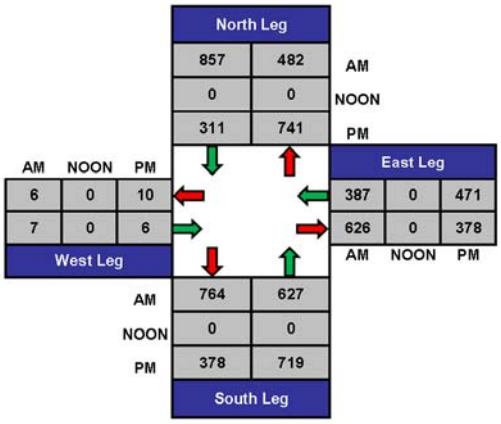
City: Chatsworth



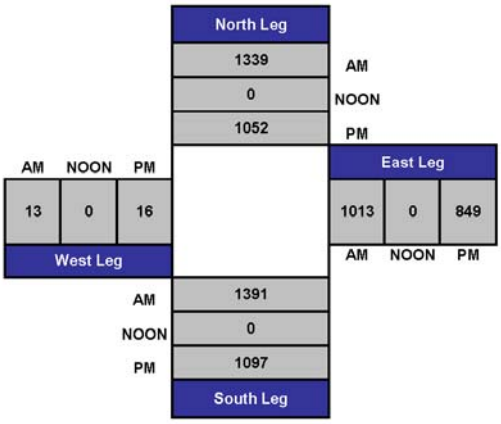
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	445 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-007 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

AM

NS/EW Streets:	SR-27			SR-27			Roscoe Blvd			Roscoe Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	1	2	2	0	2	2	1	
7:00 AM	19	133	20	19	241	99	98	84	8	35	67	8	831
7:15 AM	14	145	17	12	324	113	119	83	12	47	64	9	959
7:30 AM	17	165	17	11	282	132	122	127	15	48	82	14	1032
7:45 AM	15	193	34	14	293	130	112	120	14	41	91	18	1075
8:00 AM	17	167	26	11	307	138	117	117	12	46	101	11	1070
8:15 AM	13	186	26	16	348	134	110	106	6	35	109	17	1106
8:30 AM	27	163	25	11	302	134	132	123	11	46	122	7	1103
8:45 AM	23	183	22	30	367	155	128	124	7	43	140	18	1240
9:00 AM	13	175	29	18	265	104	115	118	13	48	91	13	1002
9:15 AM	20	191	41	19	334	116	93	86	19	34	84	17	1054
9:30 AM	17	162	25	28	262	110	127	121	11	50	94	25	1032
9:45 AM	13	170	35	27	312	113	113	143	21	42	96	15	1100
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	208	2033	317	216	3637	1478	1386	1352	149	515	1141	172	12604
APPROACH %'s :	8.13%	79.48%	12.39%	4.05%	68.22%	27.72%	48.01%	46.83%	5.16%	28.17%	62.42%	9.41%	
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	80	699	99	68	1324	561	487	470	36	170	472	53	4519
PEAK HR FACTOR :		0.963			0.885			0.933			0.864		0.911

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 14-5844-007 **Day:** Thursday

City: Chatsworth **Date:** 12/18/2014

PM

NS/EW Streets:	SR-27			SR-27			Roscoe Blvd			Roscoe Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	1	2	2	0	2	2	1	
3:00 PM	27	285	41	26	281	127	141	158	26	35	129	25	1301
3:15 PM	34	291	46	29	283	122	144	165	27	40	117	27	1325
3:30 PM	28	318	47	24	302	140	140	162	20	67	128	25	1401
3:45 PM	29	284	54	36	300	135	130	176	22	60	141	23	1390
4:00 PM	30	341	37	23	315	170	127	199	18	59	123	28	1470
4:15 PM	29	279	51	29	298	140	148	166	23	52	150	28	1393
4:30 PM	29	361	49	29	325	134	102	162	23	64	121	15	1414
4:45 PM	31	265	57	36	295	146	160	163	22	44	139	33	1391
5:00 PM	29	331	52	31	319	131	108	178	19	70	148	25	1441
5:15 PM	28	285	57	23	301	160	153	226	16	62	140	17	1468
5:30 PM	25	324	60	27	346	154	123	198	25	71	139	20	1512
5:45 PM	30	263	60	35	322	152	149	183	18	48	124	29	1413
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	349	3627	611	348	3687	1711	1625	2136	259	672	1599	295	16919
APPROACH %'s :	7.61%	79.07%	13.32%	6.06%	64.17%	29.78%	40.42%	53.13%	6.44%	26.19%	62.31%	11.50%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	112	1203	229	116	1288	597	533	785	78	251	551	91	5834
PEAK HR FACTOR :		0.937			0.949			0.884			0.919		0.965

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

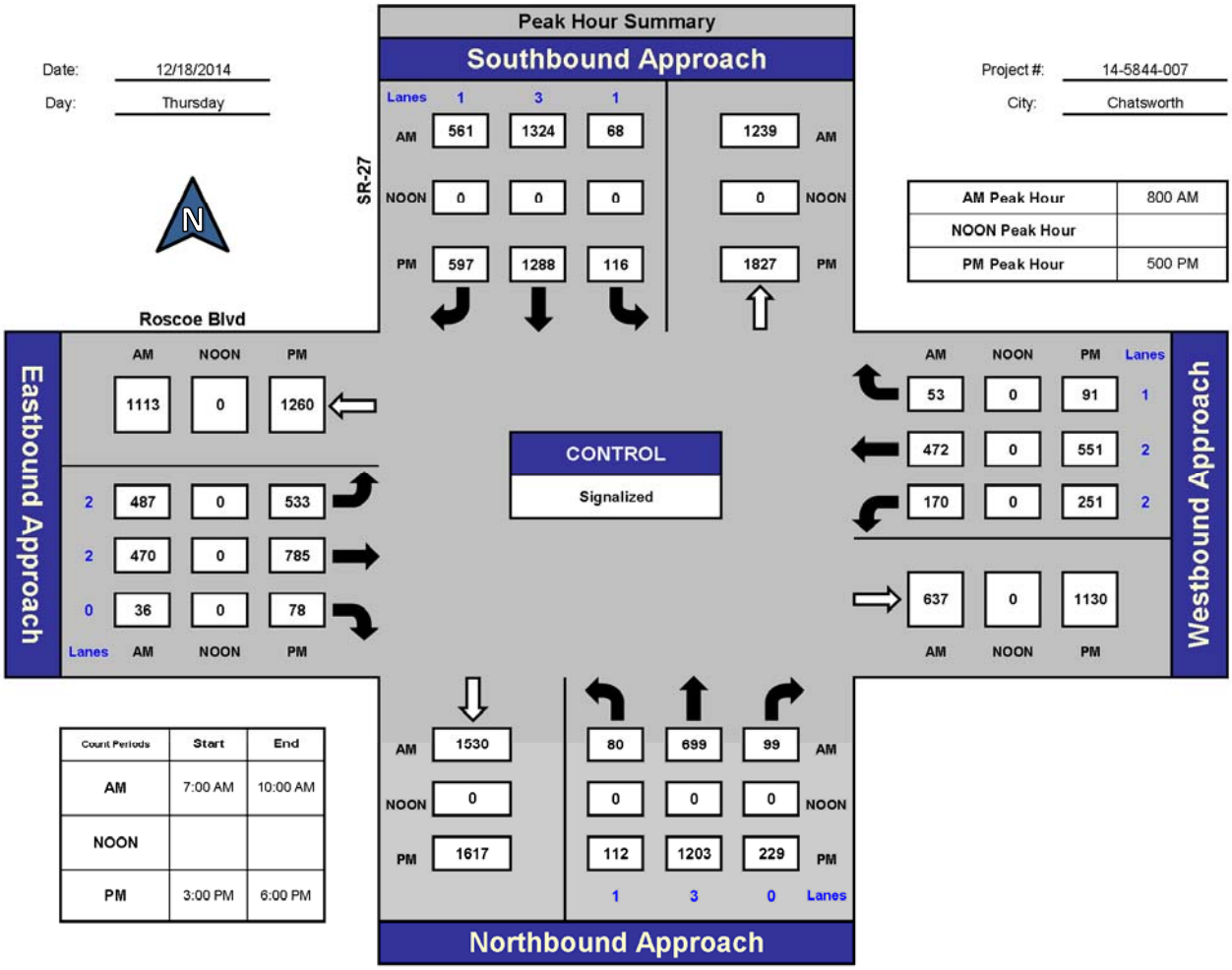
National Data & Surveying Services

SR-27 and Roscoe Blvd , Chatsworth

Date: 12/18/2014
Day: Thursday

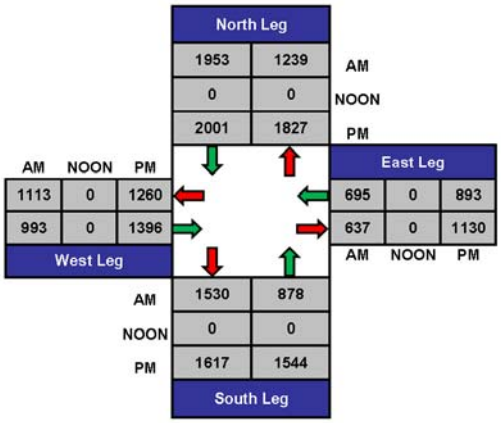
Project #: 14-5844-007
City: Chatsworth

AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	500 PM

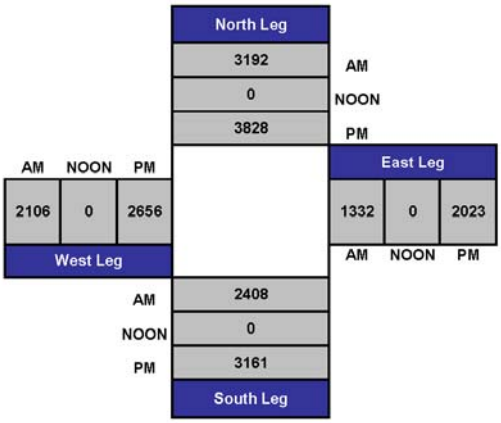


Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Date: Wednesday, March 05, 2014
Period: 07:00 AM to 10:00 AM
Intersection: N/S: Topanga Canyon Boulevard
E/W: Sherman Way
AM Peak Hour: 0730-0830

		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
	2014	110	1070	119	103	1673	130	229	571	150	234	643	79
1% growth	2015	111	1081	120	104	1690	131	231	577	152	236	649	80

Date: Wednesday, March 05, 2014
Period: 03:00 PM to 06:00 PM
Intersection: N/S: Topanga Canyon Boulevard
E/W: Sherman Way
AM Peak Hour: 0500-0600

		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
	2014	143	1419	181	136	1288	179	271	613	169	217	566	126
1% growth	2015	144	1433	183	137	1301	181	274	619	171	219	572	127

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-001 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

AM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Victory Blvd			Victory Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	0	1	3	0	1	3	0	
7:00 AM	3	77	23	30	219	6	6	23	6	32	7	13	445
7:15 AM	5	98	19	45	349	3	8	30	14	48	6	18	643
7:30 AM	4	213	74	59	410	6	38	69	26	96	10	27	1032
7:45 AM	9	231	108	55	298	10	36	64	14	70	21	33	949
8:00 AM	9	153	38	45	223	15	11	33	8	56	13	35	639
8:15 AM	6	90	26	45	259	9	8	23	7	49	19	22	563
8:30 AM	4	63	22	43	241	8	6	30	3	40	16	14	490
8:45 AM	6	81	28	44	214	8	6	34	14	33	12	20	500
9:00 AM	3	86	27	44	168	5	14	30	5	28	14	21	445
9:15 AM	5	74	20	38	149	5	8	32	11	29	16	26	413
9:30 AM	3	64	25	23	128	6	9	25	5	27	12	18	345
9:45 AM	2	68	25	22	126	2	11	13	9	21	12	18	329
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	59	1298	435	493	2784	83	161	406	122	529	158	265	6793
APPROACH %'s :	3.29%	72.43%	24.27%	14.67%	82.86%	2.47%	23.37%	58.93%	17.71%	55.57%	16.60%	27.84%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	27	695	239	204	1280	34	93	196	62	270	50	113	3263
PEAK HR FACTOR :		0.690			0.799			0.660			0.814		0.790

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-001 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

PM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Victory Blvd			Victory Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	0	1	3	0	1	3	0	
3:00 PM	7	145	26	22	145	4	11	22	4	40	18	44	488
3:15 PM	10	261	63	39	151	9	9	26	7	54	26	41	696
3:30 PM	10	282	59	32	129	5	12	30	5	52	26	46	688
3:45 PM	7	246	46	33	131	9	7	22	6	47	20	36	610
4:00 PM	6	205	53	41	108	4	14	29	2	50	17	30	559
4:15 PM	8	244	50	27	119	17	7	24	5	46	27	60	634
4:30 PM	11	234	40	24	133	4	7	19	7	39	22	47	587
4:45 PM	9	242	27	30	103	3	6	22	6	34	21	56	559
5:00 PM	11	210	33	37	120	11	13	25	2	52	23	47	584
5:15 PM	3	288	33	24	137	6	9	27	5	58	32	52	674
5:30 PM	11	254	50	33	112	5	10	28	8	33	15	41	600
5:45 PM	9	275	45	31	101	8	7	29	5	27	35	46	618
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	102	2886	525	373	1489	85	112	303	62	532	282	546	7297
APPROACH %'s :	2.90%	82.15%	14.94%	19.16%	76.48%	4.37%	23.48%	63.52%	13.00%	39.12%	20.74%	40.15%	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	33	994	221	145	519	27	42	107	20	203	89	153	2553
PEAK HR FACTOR :		0.889			0.868			0.899			0.897		0.917

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

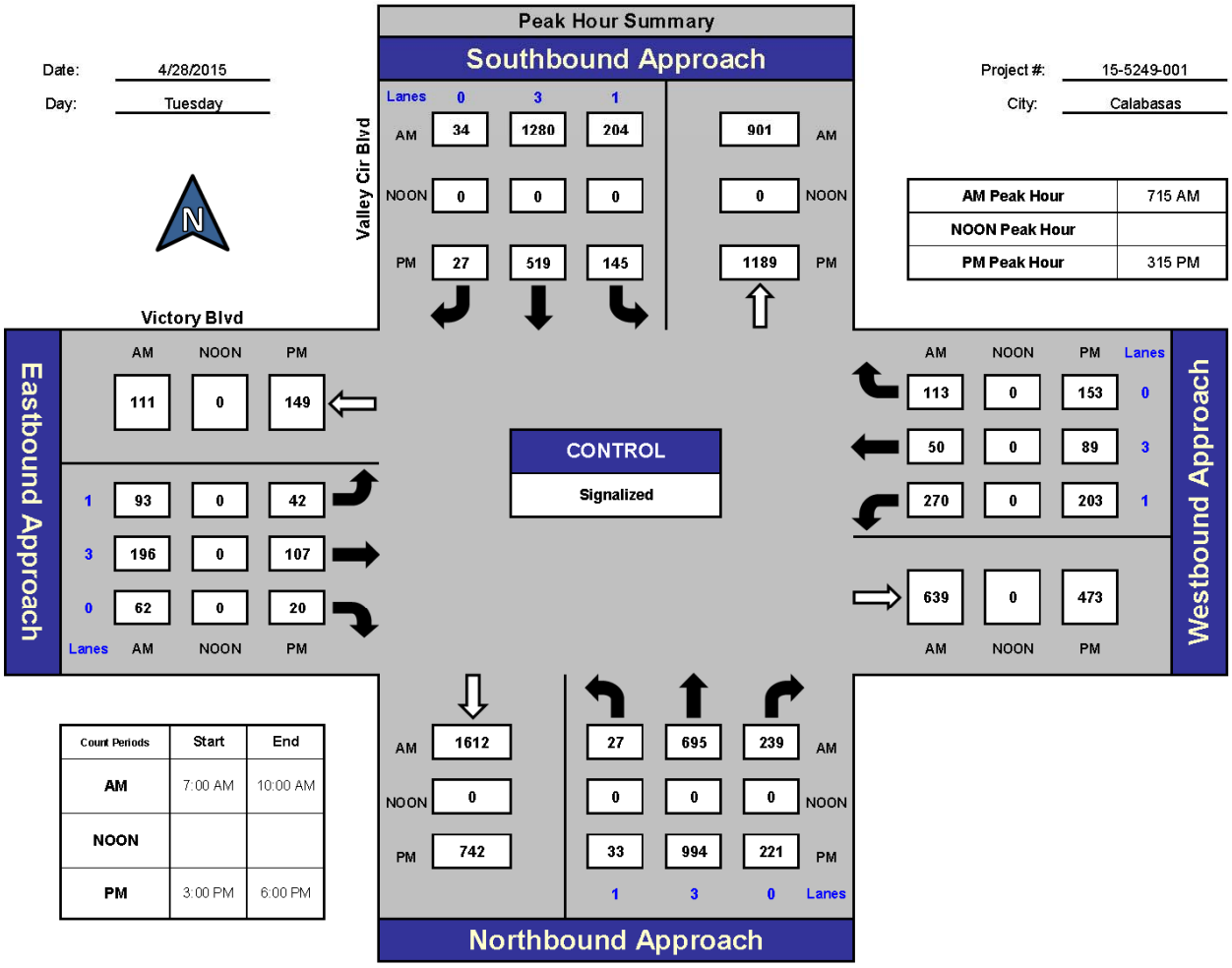
Valley Cir Blvd and Victory Blvd , Calabasas

Date: 4/28/2015

Day: Tuesday

Project #: 15-5249-001

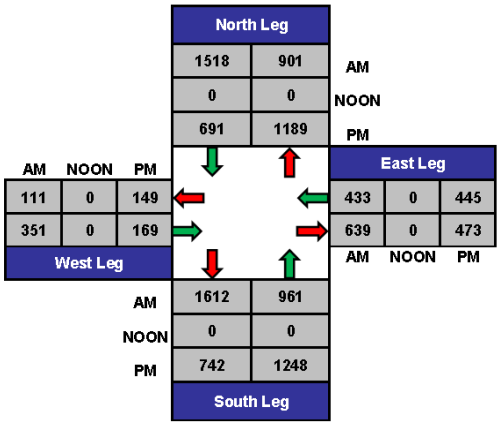
City: Calabasas



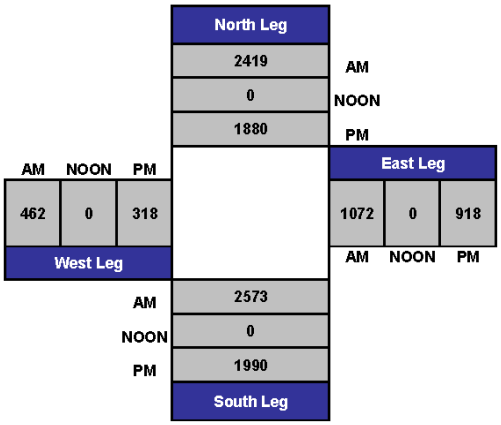
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	315 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5395-001 **Day:** Thursday

City: San Fernando Valley **Date:** 6/18/2015

AM

NS/EW Streets:	Topanga Cyn			Topanga Cyn			Victory Blvd			Victory Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	3	0	2	2	1	2	2	1	
7:00 AM	10	125	12	38	321	12	13	80	14	27	77	22	751
7:15 AM	5	156	10	30	277	17	22	92	14	32	93	10	758
7:30 AM	12	150	15	51	377	24	17	150	23	48	141	15	1023
7:45 AM	23	158	22	41	365	23	25	159	33	58	113	29	1049
8:00 AM	19	149	29	40	310	20	26	132	26	59	130	21	961
8:15 AM	15	164	23	26	307	18	21	138	26	54	140	24	956
8:30 AM	23	188	29	39	343	32	29	153	31	55	119	27	1068
8:45 AM	29	193	27	37	315	25	28	165	37	40	131	26	1053
9:00 AM	20	180	24	35	295	22	17	150	38	35	110	39	965
9:15 AM	22	159	33	38	275	27	25	164	36	37	106	28	950
9:30 AM	27	173	36	29	239	25	22	131	47	40	108	21	898
9:45 AM	19	190	34	33	279	25	33	132	39	40	97	31	952
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	224	1985	294	437	3703	270	278	1646	364	525	1365	293	11384
APPROACH %'s :	8.95%	79.30%	11.75%	9.91%	83.97%	6.12%	12.15%	71.94%	15.91%	24.05%	62.53%	13.42%	
PEAK HR START TIME :	815 AM												TOTAL
PEAK HR VOL :	87	725	103	137	1260	97	95	606	132	184	500	116	4042
PEAK HR FACTOR :		0.919			0.902			0.905			0.917		0.946

CONTROL : Signalized

2013 count

PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	101	903	125	202	1521	88	83	870	124	180	534	106	4837
PEAK HR FACTOR :		0.000			0.000			0.000			0.000		0.000

2015 Factored Count	106	885	126	167	1538	118	116	740	161	225	610	142	4934

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5395-001 **Day:** Thursday

City: San Fernando Valley **Date:** 6/18/2015

PM

NS/EW Streets:	Topanga Cyn			Topanga Cyn			Victory Blvd			Victory Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	1	3	0	2	2	1	2	2	1	
3:00 PM	25	243	47	36	256	34	42	131	30	49	153	47	1093
3:15 PM	26	171	64	46	255	28	33	182	50	50	170	51	1126
3:30 PM	19	200	41	51	248	38	45	172	39	56	156	70	1135
3:45 PM	20	189	41	37	201	24	40	156	32	53	167	39	999
4:00 PM	15	203	32	49	243	24	38	187	42	58	172	79	1142
4:15 PM	21	159	35	48	238	29	43	160	28	52	168	57	1038
4:30 PM	17	195	36	51	250	29	40	168	41	48	168	80	1123
4:45 PM	15	203	44	41	276	20	44	203	45	62	194	72	1219
5:00 PM	24	196	41	58	264	35	38	157	40	66	195	68	1182
5:15 PM	24	200	26	31	232	33	50	194	32	55	210	81	1168
5:30 PM	20	227	36	54	287	47	41	180	32	54	162	67	1207
5:45 PM	11	185	37	52	249	27	47	188	39	44	196	50	1125
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	237	2371	480	554	2999	368	501	2078	450	647	2111	761	13557
APPROACH %'s :	7.67%	76.78%	15.54%	14.13%	76.49%	9.39%	16.54%	68.60%	14.86%	18.39%	59.99%	21.63%	
PEAK HR START TIME :	445 PM												TOTAL
PEAK HR VOL :	83	826	147	184	1059	135	173	734	149	237	761	288	4776
PEAK HR FACTOR :		0.933			0.888			0.904			0.929		0.979

CONTROL : Signalized

2013 count

PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	142	1348	252	228	1113	108	222	955	148	304	884	309	6013
PEAK HR FACTOR :		0.000			0.000			0.000			0.000		0.000

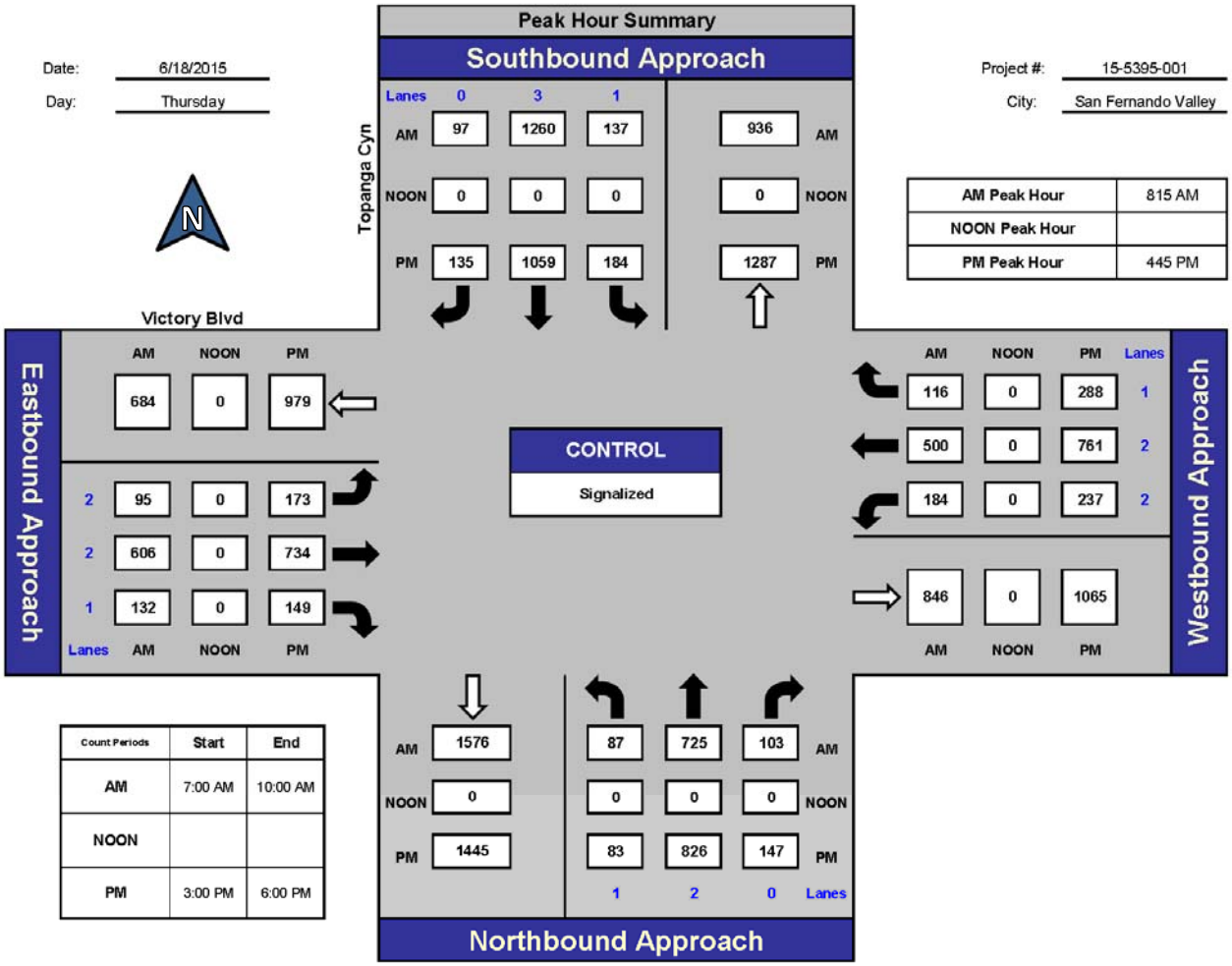
2015 Factored Count	107	1061	189	236	1360	173	222	943	191	304	977	370	6133

ITM Peak Hour Summary

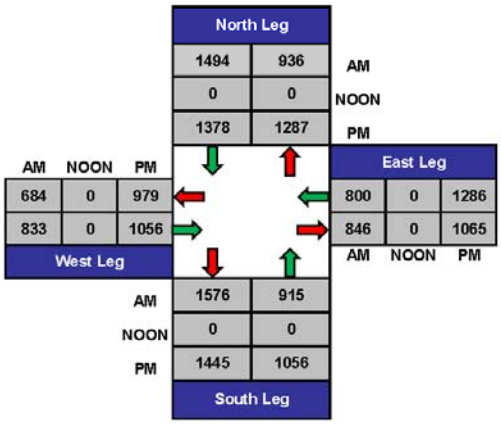
Prepared by:

National Data & Surveying Services

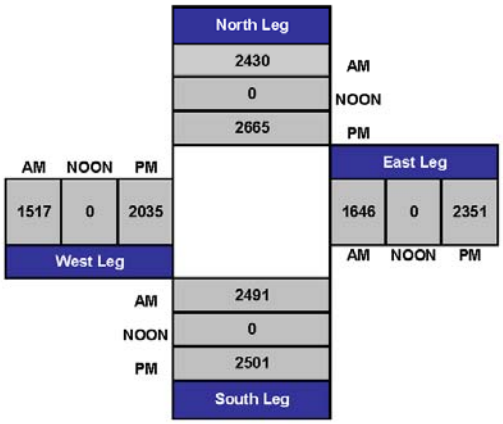
Topanga Cyn and Victory Blvd , San Fernando Valley



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5395-002

Day: Thursday

City: San Fernando Valley

Date: 6/18/2015

AM

NS/EW Streets:	Topanga Cyn			Topanga Cyn			Burbank Blvd			Burbank Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	1	1	2	0	1	2	1	
7:00 AM	39	231	69	18	190	118	9	36	33	30	86	2	861
7:15 AM	45	250	85	22	230	96	5	53	29	21	96	2	934
7:30 AM	30	248	101	22	232	126	12	64	43	33	112	8	1031
7:45 AM	41	316	134	22	258	129	3	76	39	20	132	4	1174
8:00 AM	40	295	129	22	249	113	6	79	39	48	114	10	1144
8:15 AM	36	304	107	21	257	123	8	99	41	28	95	15	1134
8:30 AM	53	373	115	24	253	113	5	69	44	26	112	7	1194
8:45 AM	56	363	105	31	234	106	8	78	57	25	110	10	1183
9:00 AM	54	349	113	15	270	104	4	65	45	41	87	13	1160
9:15 AM	64	293	87	24	233	100	10	54	31	22	81	8	1007
9:30 AM	60	338	83	16	205	83	7	52	40	46	89	8	1027
9:45 AM	49	324	99	17	260	87	12	36	33	40	90	13	1060
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	567	3684	1227	254	2871	1298	89	761	474	380	1204	100	12909
APPROACH %'s :	10.35%	67.25%	22.40%	5.74%	64.91%	29.35%	6.72%	57.48%	35.80%	22.57%	71.50%	5.94%	
PEAK HR START TIME :	815 AM												TOTAL
PEAK HR VOL :	199	1389	440	91	1014	446	25	311	187	120	404	45	4671
PEAK HR FACTOR :		0.937			0.967			0.883			0.981		0.978

CONTROL : Signalized

2015 Factored Count

PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	243	1695	537	111	1238	544	31	380	228	146	493	55	5701
PEAK HR FACTOR :		0.000			0.000			0.000			0.000		0.000

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5395-002 **Day:** Thursday

City: San Fernando Valley **Date:** 6/18/2015

PM

NS/EW Streets:	Topanga Cyn			Topanga Cyn			Burbank Blvd			Burbank Blvd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	3	0	1	3	1	1	2	0	1	2	1	
3:00 PM	71	335	80	13	272	115	7	41	35	54	139	9	1171
3:15 PM	71	381	76	12	280	102	4	36	42	55	120	11	1190
3:30 PM	64	387	92	14	262	101	8	48	29	46	149	13	1213
3:45 PM	67	363	107	17	262	108	10	50	23	36	119	16	1178
4:00 PM	56	373	75	7	251	100	6	28	44	55	154	15	1164
4:15 PM	63	380	77	10	258	113	5	49	38	46	173	15	1227
4:30 PM	62	361	87	8	271	109	4	43	29	47	178	11	1210
4:45 PM	65	363	75	11	280	112	6	34	24	65	178	12	1225
5:00 PM	68	395	91	11	282	133	8	55	39	51	182	16	1331
5:15 PM	62	398	104	11	258	104	4	53	41	68	211	15	1329
5:30 PM	67	435	83	16	265	122	8	65	35	57	182	6	1341
5:45 PM	79	448	99	13	244	118	6	50	50	51	183	13	1354
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	795	4619	1046	143	3185	1337	76	552	429	631	1968	152	14933
APPROACH %'s :	12.31%	71.50%	16.19%	3.07%	68.27%	28.66%	7.19%	52.22%	40.59%	22.94%	71.54%	5.53%	

PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	276	1676	377	51	1049	477	26	223	165	227	758	50	5355
PEAK HR FACTOR :		0.930			0.925			0.958			0.880		0.989

CONTROL : Signalized

2015 Factored Count

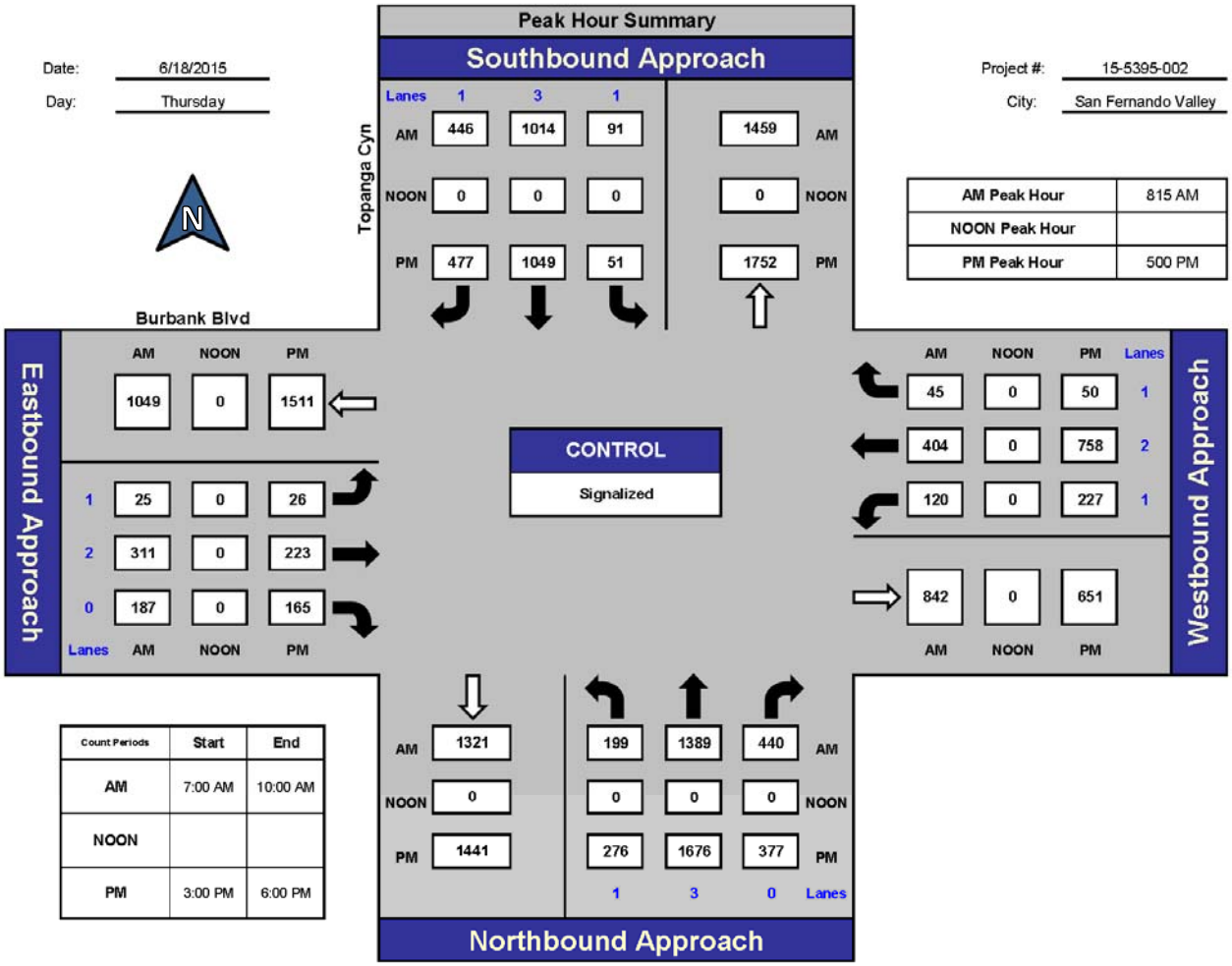
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	354	2152	484	65	1347	613	33	286	212	292	973	64	6877
PEAK HR FACTOR :		0.000			0.000			0.000			0.000		0.000

ITM Peak Hour Summary

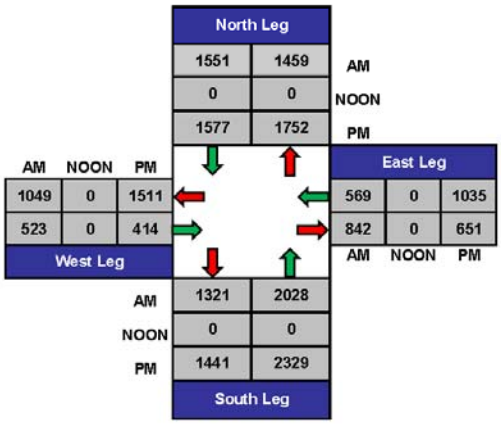
Prepared by:

National Data & Surveying Services

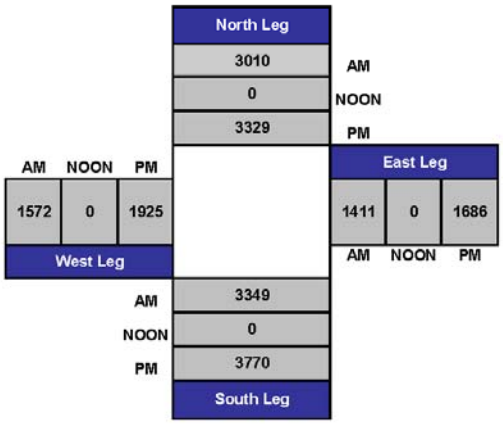
Topanga Cyn and Burbank Blvd , San Fernando Valley



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5395-003 **Day:** Thursday

City: San Fernando Valley **Date:** 6/18/2015

AM

NS/EW Streets:	Topanga Cyn			Topanga Cyn			US-101 WB Off-Ramps			US-101 WB Off-Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	3	0	0	4	0	0	0	1	0	0	2	
7:00 AM		244			273				115			90	722
7:15 AM		275			284				100			108	767
7:30 AM		292			317				90			84	783
7:45 AM		389			313				148			109	959
8:00 AM		340			344				135			122	941
8:15 AM		355			317				145			97	914
8:30 AM		398			329				150			138	1015
8:45 AM		397			308				159			136	1000
9:00 AM		349			364				128			157	998
9:15 AM		326			287				135			124	872
9:30 AM		334			303				120			141	898
9:45 AM		336			333				121			145	935
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	4035	0	0	3772	0	0	0	1546	0	0	1451	10804
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
PEAK HR START TIME :	815 AM												TOTAL
PEAK HR VOL :	0	1499	0	0	1318	0	0	0	582	0	0	528	3927
PEAK HR FACTOR :		0.942			0.905			0.915			0.841		0.967

CONTROL : 1-Way Stop (WB)

2015 Factored Count

PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	0	1830	0	0	1609	0	0	0	710	0	0	644	4793
PEAK HR FACTOR :		0.000			0.000			0.000			0.000		0.000

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5395-003 **Day:** Thursday

City: San Fernando Valley **Date:** 6/18/2015

PM

NS/EW Streets:	Topanga Cyn			Topanga Cyn			US-101 WB Off-Ramps			US-101 WB Off-Ramps			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	3	0	0	4	0	0	0	1	0	0	2	
3:00 PM		368			370				76			115	929
3:15 PM		401			374				120			131	1026
3:30 PM		415			345				120			124	1004
3:45 PM		425			324				128			115	992
4:00 PM		373			360				118			128	979
4:15 PM		409			340				115			119	983
4:30 PM		392			356				165			113	1026
4:45 PM		405			366				149			102	1022
5:00 PM		444			381				150			108	1083
5:15 PM		441			363				172			131	1107
5:30 PM		461			366				130			121	1078
5:45 PM		495			346				153			133	1127
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	5029	0	0	4291	0	0	0	1596	0	0	1440	12356
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	0	1841	0	0	1456	0	0	0	605	0	0	493	4395
PEAK HR FACTOR :		0.930			0.955			0.879			0.927		0.975

CONTROL : 1-Way Stop (WB)

2015 Factored Count

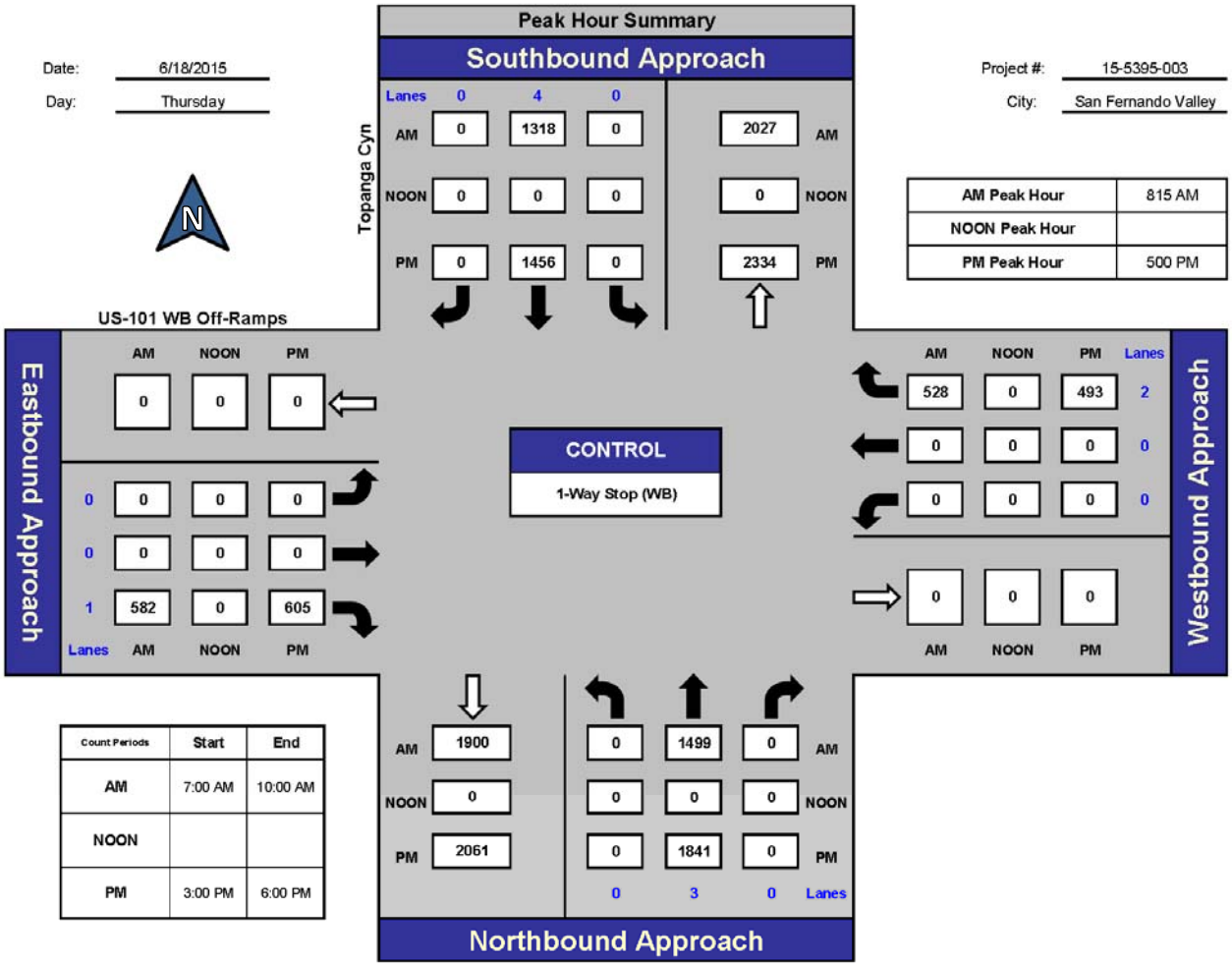
PEAK HR START TIME :	800 AM												TOTAL
PEAK HR VOL :	0	2364	0	0	1870	0	0	0	777	0	0	633	5644
PEAK HR FACTOR :		0.000			0.000			0.000			0.000		0.000

ITM Peak Hour Summary

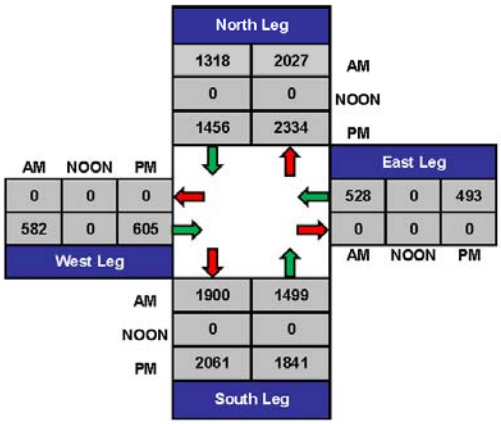
Prepared by:

National Data & Surveying Services

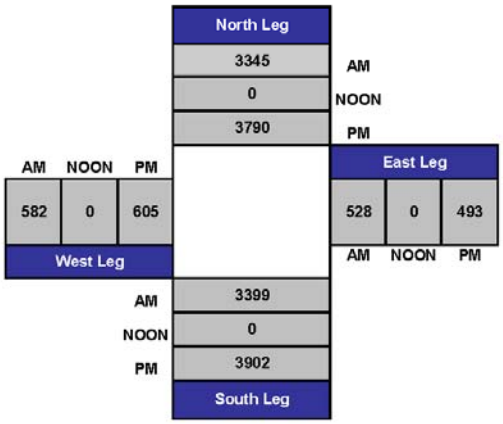
Topanga Cyn and US-101 WB Off-Ramps , San Fernando Valley



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-002 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

AM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			US-101 NB Off Ramp_Long Valley Rd			US-101 NB Off Ramp_Long Valley Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	3	1	1	0	1	1.5	1	1.5	
7:00 AM	65	124	0	0	275	138	2	0	15	168	15	72	874
7:15 AM	85	181	0	0	344	194	4	0	25	131	14	112	1090
7:30 AM	108	262	0	0	349	201	3	0	30	91	7	126	1177
7:45 AM	118	224	0	0	371	224	6	0	19	99	10	88	1159
8:00 AM	116	170	0	0	358	213	4	0	15	108	16	46	1046
8:15 AM	124	160	0	0	327	230	5	0	20	109	13	33	1021
8:30 AM	88	174	0	0	372	247	2	0	18	106	7	29	1043
8:45 AM	106	217	0	0	310	188	4	0	25	125	14	28	1017
9:00 AM	85	160	0	0	275	170	9	0	10	143	18	42	912
9:15 AM	68	122	0	0	252	147	6	0	23	153	17	51	839
9:30 AM	65	137	0	0	246	139	3	0	14	147	6	55	812
9:45 AM	76	167	0	0	241	119	10	0	15	134	9	51	822
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	1104	2098	0	0	3720	2210	58	0	229	1514	146	733	11812
APPROACH %'s :	34.48%	65.52%	0.00%	0.00%	62.73%	37.27%	20.21%	0.00%	79.79%	63.27%	6.10%	30.63%	
PEAK HR START TIME :	715 AM												TOTAL
PEAK HR VOL :	427	837	0	0	1422	832	17	0	89	429	47	372	4472
PEAK HR FACTOR :		0.854			0.947			0.803			0.825		0.950

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-002 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

PM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			US-101 NB Off Ramp_Long Valley Rd			US-101 NB Off Ramp_Long Valley Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	0	0	3	1	1	0	1	1.5	1	1.5	
3:00 PM	94	318	0	0	192	118	7	0	25	142	9	136	1041
3:15 PM	99	353	0	0	244	133	4	0	21	126	16	148	1144
3:30 PM	88	346	0	0	276	120	8	0	28	147	7	124	1144
3:45 PM	88	340	0	0	198	123	6	0	24	118	11	129	1037
4:00 PM	72	346	0	0	167	108	17	0	26	134	11	139	1020
4:15 PM	71	385	0	0	186	131	7	0	19	116	12	110	1037
4:30 PM	74	387	0	0	178	113	15	0	21	140	5	104	1037
4:45 PM	75	372	0	0	178	92	17	0	27	111	11	106	989
5:00 PM	64	411	0	0	180	119	12	0	14	142	6	136	1084
5:15 PM	70	412	0	0	210	104	6	0	16	122	8	142	1090
5:30 PM	70	438	0	0	194	106	4	0	6	116	12	136	1082
5:45 PM	54	430	0	0	206	103	11	0	15	136	7	149	1111
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	919	4538	0	0	2409	1370	114	0	242	1550	115	1559	12816
APPROACH %'s :	16.84%	83.16%	0.00%	0.00%	63.75%	36.25%	32.02%	0.00%	67.98%	48.08%	3.57%	48.36%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	258	1691	0	0	790	432	33	0	51	516	33	563	4367
PEAK HR FACTOR :		0.959			0.973			0.808			0.952		0.983

CONTROL : Signalized

ITM Peak Hour Summary

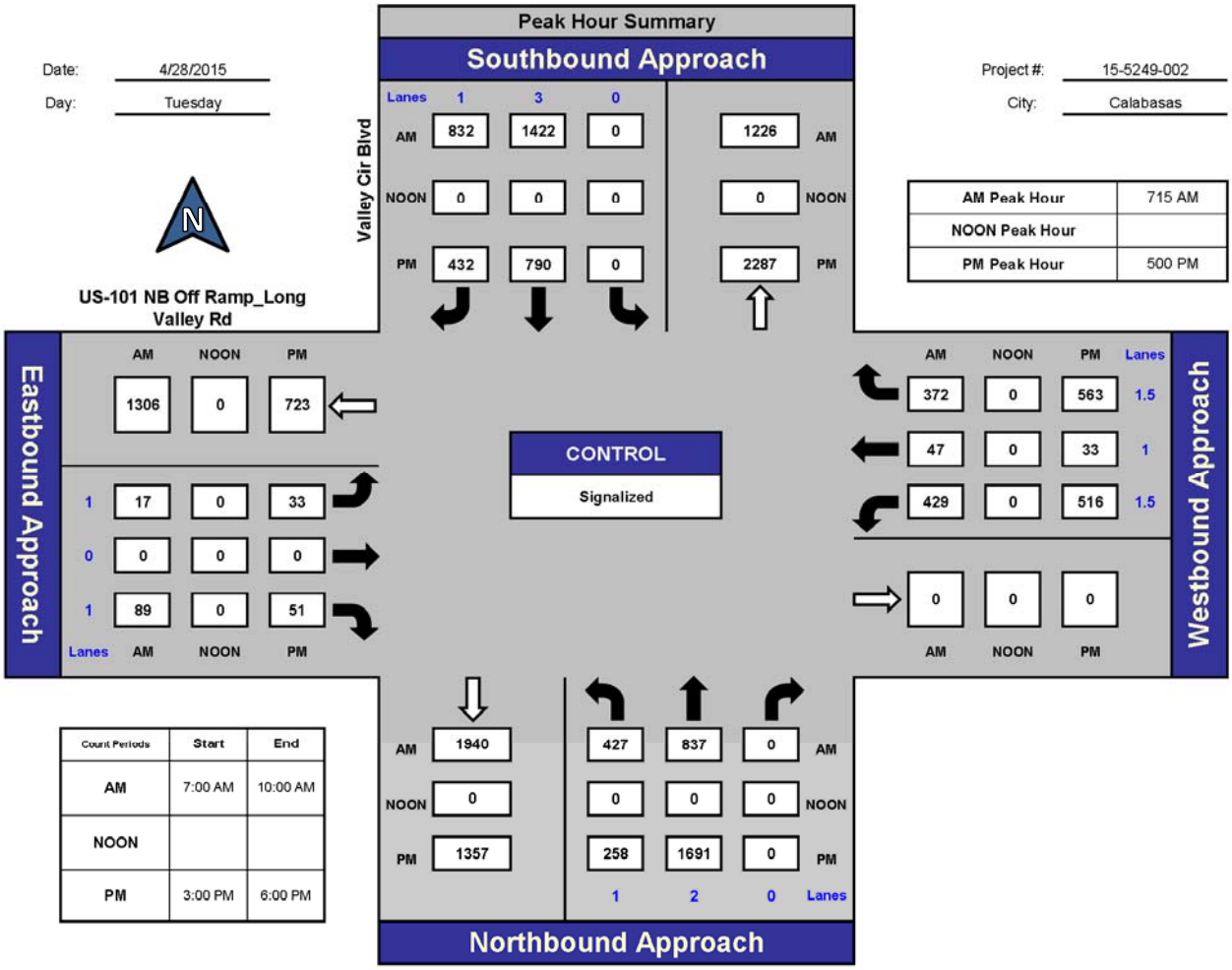
Prepared by:

National Data & Surveying Services

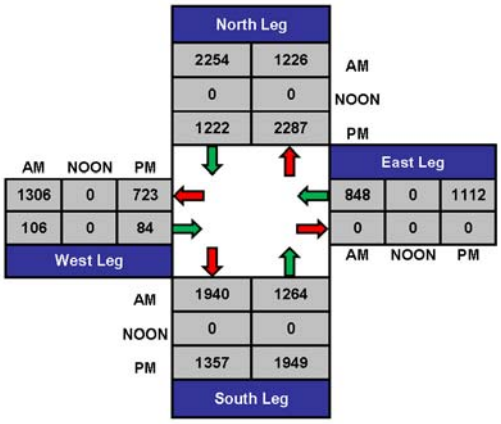
Valley Cir Blvd and US-101 NB Off Ramp Long Valley Rd , Calabasas

Date: 4/28/2015
Day: Tuesday
Project #: 15-5249-002
City: Calabasas

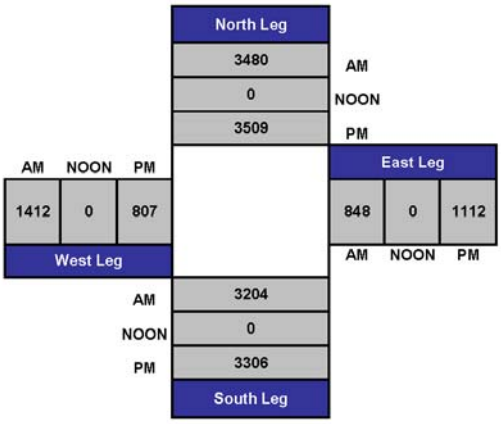
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	500 PM



Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-003 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

AM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Calabasas Rd_Avenue San Luis			Calabasas Rd_Avenue San Luis			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	2	2	2	0	1	1	1	
7:00 AM	15	145	4	17	206	230	81	20	83	12	29	39	881
7:15 AM	13	213	11	25	249	231	107	26	122	14	35	36	1082
7:30 AM	21	277	19	18	194	257	145	30	115	21	45	76	1218
7:45 AM	22	265	17	28	204	258	111	34	98	26	57	82	1202
8:00 AM	20	254	13	24	203	250	94	32	84	18	69	56	1117
8:15 AM	39	265	16	14	198	248	95	29	108	36	84	50	1182
8:30 AM	31	216	13	14	190	283	125	33	107	22	64	31	1129
8:45 AM	25	271	19	20	171	260	142	32	108	29	83	41	1201
9:00 AM	35	225	12	18	129	272	96	26	63	21	53	34	984
9:15 AM	31	183	11	17	143	276	88	33	49	12	37	22	902
9:30 AM	27	161	10	18	131	255	98	30	57	13	30	42	872
9:45 AM	26	188	12	16	138	239	127	36	69	12	28	42	933
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	305	2663	157	229	2156	3059	1309	361	1063	236	614	551	12703
APPROACH %'s :	9.76%	85.22%	5.02%	4.21%	39.60%	56.19%	47.90%	13.21%	38.89%	16.85%	43.83%	39.33%	
PEAK HR START TIME :	730 AM												TOTAL
PEAK HR VOL :	102	1061	65	84	799	1013	445	125	405	101	255	264	4719
PEAK HR FACTOR :		0.959			0.967			0.841			0.912		0.969

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-003 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

PM

NS/EW Streets:	Valley Cir Blvd			Valley Cir Blvd			Calabasas Rd_Avenue San Luis			Calabasas Rd_Avenue San Luis			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1	2	1	1	2	2	2	2	0	1	1	1	
3:00 PM	28	258	20	17	177	157	196	65	90	21	26	61	1116
3:15 PM	35	269	22	22	186	191	240	68	98	26	42	65	1264
3:30 PM	23	252	17	19	199	222	249	91	89	25	31	52	1269
3:45 PM	29	272	21	23	162	166	225	84	75	18	31	41	1147
4:00 PM	29	225	25	32	140	153	256	99	67	14	32	59	1131
4:15 PM	37	235	13	27	162	134	271	101	68	25	25	48	1146
4:30 PM	27	228	24	22	157	158	270	95	83	18	24	34	1140
4:45 PM	34	193	22	18	161	143	272	99	55	20	41	39	1097
5:00 PM	24	242	24	17	162	163	295	101	60	25	36	43	1192
5:15 PM	36	245	31	24	182	144	318	108	55	19	24	44	1230
5:30 PM	25	259	28	25	145	149	305	99	56	21	35	35	1182
5:45 PM	24	233	25	23	170	156	291	110	61	16	46	39	1194
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	351	2911	272	269	2003	1936	3188	1120	857	248	393	560	14108
APPROACH %'s :	9.93%	82.37%	7.70%	6.39%	47.60%	46.01%	61.72%	21.68%	16.59%	20.65%	32.72%	46.63%	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	116	1018	85	96	687	732	970	342	329	83	136	217	4811
PEAK HR FACTOR :		0.935			0.861			0.956			0.820		0.948

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

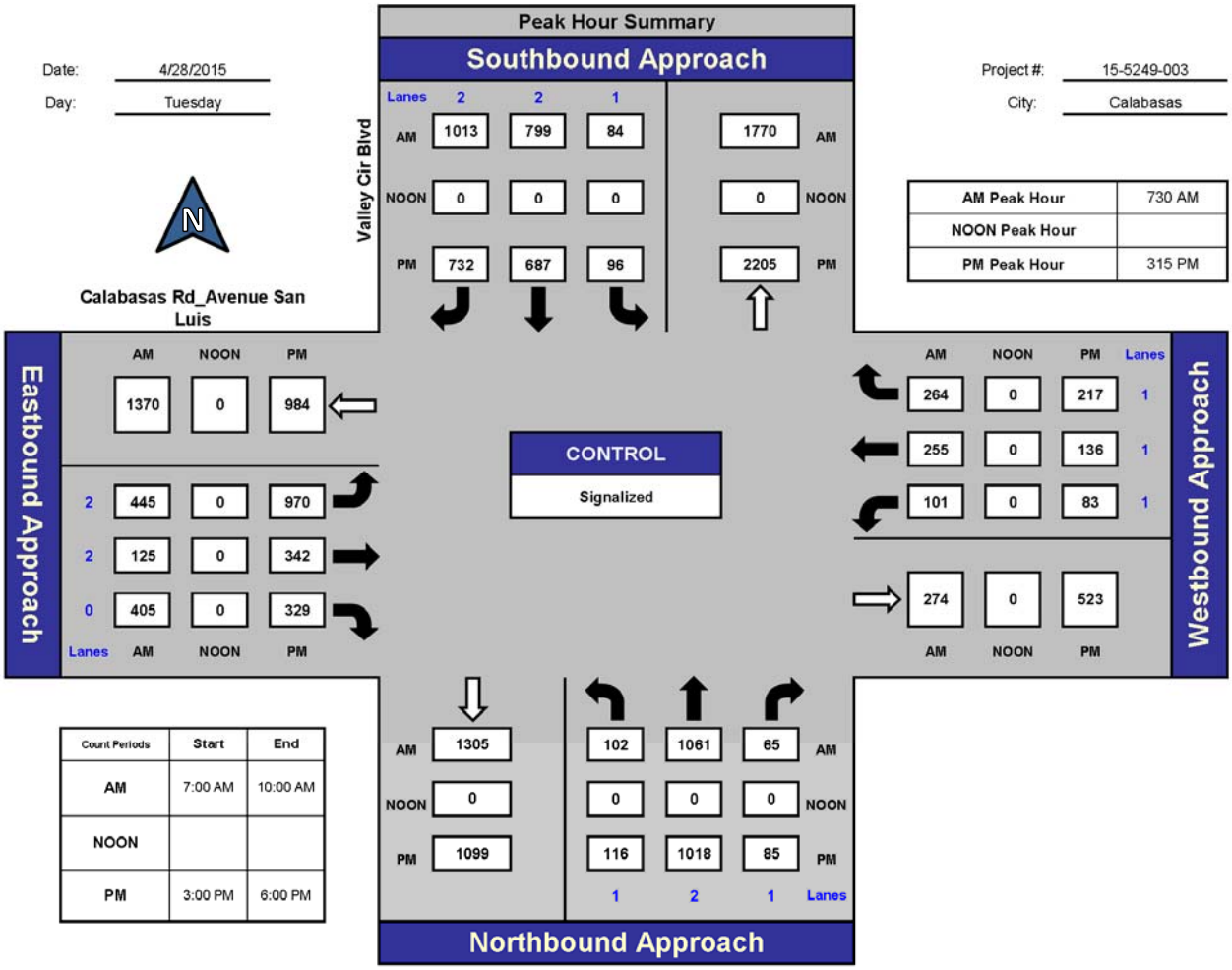
Valley Cir Blvd and Calabasas Rd Avenue San Luis , Calabasas

Date: 4/28/2015

Day: Tuesday

Project #: 15-5249-003

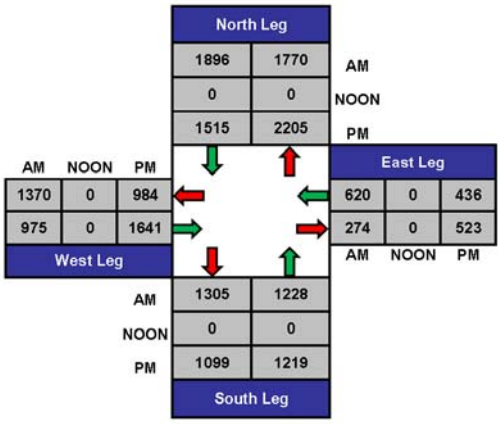
City: Calabasas



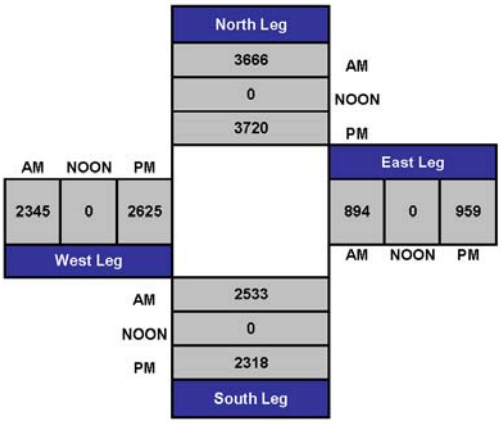
AM Peak Hour	730 AM
NOON Peak Hour	
PM Peak Hour	315 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-004 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

AM

NS/EW Streets:	US-101 SB Ramps			US-101 SB Ramps			Calabasas Rd			Calabasas Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	0	0	2	0	1	2	2	0	0	2	2	
7:00 AM	0	0	0	137	0	4	23	50	0	0	132	144	490
7:15 AM	0	0	0	186	0	11	23	66	0	0	124	153	563
7:30 AM	0	0	0	214	0	10	26	83	0	0	196	132	661
7:45 AM	0	0	0	141	0	8	23	95	0	0	209	123	599
8:00 AM	0	0	0	132	0	9	29	79	0	0	242	100	591
8:15 AM	0	0	0	141	0	12	23	91	0	0	297	71	635
8:30 AM	0	0	0	181	0	8	41	90	0	0	287	95	702
8:45 AM	0	0	0	155	0	11	27	121	0	0	275	89	678
9:00 AM	0	0	0	95	0	5	37	94	0	0	264	100	595
9:15 AM	0	0	0	68	0	5	47	98	0	0	233	107	558
9:30 AM	0	0	0	74	0	6	35	115	0	0	200	115	545
9:45 AM	0	0	0	99	0	2	51	129	0	0	181	109	571
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	1623	0	91	385	1111	0	0	2640	1338	7188
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	94.69%	0.00%	5.31%	25.74%	74.26%	0.00%	0.00%	66.37%	33.63%	
PEAK HR START TIME :	815 AM												TOTAL
PEAK HR VOL :	0	0	0	572	0	36	128	396	0	0	1123	355	2610
PEAK HR FACTOR :	0.000			0.804			0.885			0.967			0.929

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 15-5249-004 **Day:** Tuesday

City: Calabasas **Date:** 4/28/2015

PM

NS/EW Streets:	US-101 SB Ramps			US-101 SB Ramps			Calabasas Rd			Calabasas Rd			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	0	0	2	0	1	2	2	0	0	2	2	
3:00 PM	0	0	0	202	0	10	51	154	0	0	145	72	634
3:15 PM	0	0	0	221	0	12	44	181	0	0	165	98	721
3:30 PM	0	0	0	237	0	4	58	198	0	0	163	118	778
3:45 PM	0	0	0	152	0	7	62	226	0	0	158	62	667
4:00 PM	0	0	0	175	0	3	59	251	0	0	157	60	705
4:15 PM	0	0	0	162	0	3	50	274	0	0	142	51	682
4:30 PM	0	0	0	188	0	2	54	264	0	0	141	66	715
4:45 PM	0	0	0	176	0	3	48	255	0	0	158	61	701
5:00 PM	0	0	0	172	0	6	60	280	0	0	165	57	740
5:15 PM	0	0	0	182	0	4	56	299	0	0	149	56	746
5:30 PM	0	0	0	186	0	3	49	273	0	0	154	54	719
5:45 PM	0	0	0	173	0	6	34	295	0	0	172	54	734
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
TOTAL VOLUMES :	0	0	0	2226	0	63	625	2950	0	0	1869	809	8542
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	97.25%	0.00%	2.75%	17.48%	82.52%	0.00%	0.00%	69.79%	30.21%	
PEAK HR START TIME :	500 PM												TOTAL
PEAK HR VOL :	0	0	0	713	0	19	199	1147	0	0	640	221	2939
PEAK HR FACTOR :	0.000			0.968			0.948			0.952			0.985

CONTROL : Signalized

ITM Peak Hour Summary

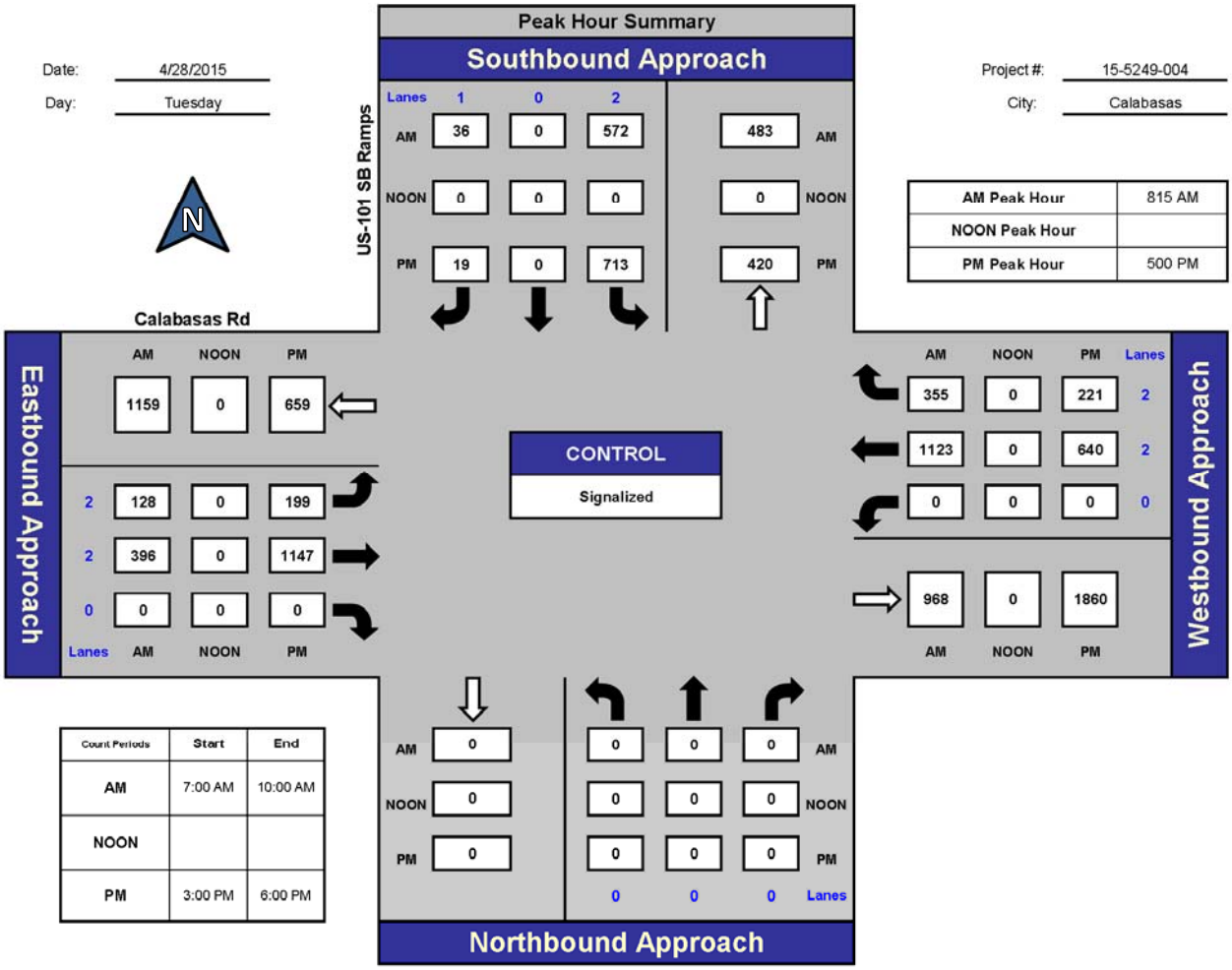
Prepared by:

National Data & Surveying Services

US-101 SB Ramps and Calabasas Rd , Calabasas

Date: 4/28/2015
Day: Tuesday

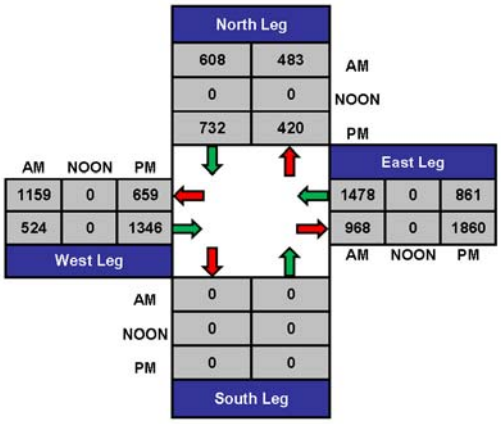
Project #: 15-5249-004
City: Calabasas



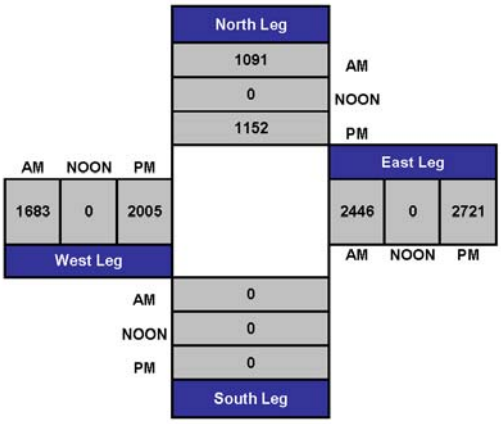
AM Peak Hour	815 AM
NOON Peak Hour	
PM Peak Hour	500 PM

Count Periods	Start	End
AM	7:00 AM	10:00 AM
NOON		
PM	3:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



Prepared by NDS/ATD

VOLUME

Box Canyon Rd Bet. Santa Susana Pass Rd & Roberson Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_001

DAILY TOTALS	NB	SB	EB	WB	Total
	1,929	1,761	0	0	3,690

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	1		1				2		12:00	16		16				32	
00:15	0		1				1		12:15	24		14				38	
00:30	0		1				1		12:30	16		22				38	
00:45	0	1	1	4			1	5	12:45	24	80	22	74			46	154
01:00	0		0				0		13:00	18		18				36	
01:15	3		1				4		13:15	18		21				39	
01:30	2		0				2		13:30	18		22				40	
01:45	0	5	0	1			0	6	13:45	26	80	13	74			39	154
02:00	0		0				0		14:00	19		11				30	
02:15	0		0				0		14:15	22		27				49	
02:30	0		1				1		14:30	19		13				32	
02:45	0		1	2			1	2	14:45	31	91	14	65			45	156
03:00	0		1				1		15:00	41		22				63	
03:15	0		1				1		15:15	34		22				56	
03:30	1		0				1		15:30	42		25				67	
03:45	1	2	1	3			2	5	15:45	45	162	15	84			60	246
04:00	2		0				2		16:00	70		21				91	
04:15	2		1				3		16:15	79		21				100	
04:30	1		1				2		16:30	68		24				92	
04:45	3	8	0	2			3	10	16:45	68	285	30	96			98	381
05:00	1		1				2		17:00	83		22				105	
05:15	5		6				11		17:15	99		31				130	
05:30	5		4				9		17:30	99		20				119	
05:45	3	14	10	21			13	35	17:45	68	349	14	87			82	436
06:00	8		21				29		18:00	58		18				76	
06:15	4		21				25		18:15	47		11				58	
06:30	13		58				71		18:30	39		22				61	
06:45	19	44	63	163			82	207	18:45	29	173	12	63			41	236
07:00	28		76				104		19:00	23		8				31	
07:15	26		98				124		19:15	17		13				30	
07:30	43		99				142		19:30	14		16				30	
07:45	49	146	70	343			119	489	19:45	12	66	5	42			17	108
08:00	36		88				124		20:00	7		7				14	
08:15	37		79				116		20:15	11		5				16	
08:30	22		74				96		20:30	8		6				14	
08:45	21	116	54	295			75	411	20:45	9	35	4	22			13	57
09:00	20		31				51		21:00	5		3				8	
09:15	14		30				44		21:15	11		6				17	
09:30	18		40				58		21:30	8		7				15	
09:45	20	72	23	124			43	196	21:45	5	29	11	27			16	56
10:00	20		16				36		22:00	4		3				7	
10:15	14		20				34		22:15	5		11				16	
10:30	19		21				40		22:30	5		5				10	
10:45	14	67	15	72			29	139	22:45	2	16	5	24			7	40
11:00	17		14				31		23:00	3		4				7	
11:15	15		17				32		23:15	3		5				8	
11:30	15		18				33		23:30	4		0				4	
11:45	30	77	14	63			44	140	23:45	1	11	1	10			2	21
TOTALS		552		1093				**1645**	**TOTALS**		1377		668				**2045**
SPLIT %		33.6%		66.4%				**44.6%**	**SPLIT %**		67.3%		32.7%				**55.4%**

DAILY TOTALS	NB	SB	EB	WB	Total
	1,929	1,761	0	0	3,690

AM Peak Hour	07:30	07:15				**07:15**	**PM Peak Hour**	16:45	16:30				**16:45**
AM Pk Volume	165	355				**509**	**PM Pk Volume**	349	107				**452**
Pk Hr Factor	0.842	0.896				**0.896**	**Pk Hr Factor**	0.881	0.863				**0.869**
7 - 9 Volume	262	638	0	0		**900**	**4 - 6 Volume**	634	183	0	0		**817**
7 - 9 Peak Hour	07:30	07:15				**07:15**	**4 - 6 Peak Hour**	16:45	16:30				**16:45**
7 - 9 Pk Volume	165	355	0	0		**509**	**4 - 6 Pk Volume**	349	107	0	0		**452**
Pk Hr Factor	0.842	0.896	0.000	0.000		**0.896**	**Pk Hr Factor**	0.881	0.863	0.000	0.000		**0.869**

Prepared by NDS/ATD

VOLUME

Santa Susana Pass Rd Bet. Rocky Peak Rd & Box Canyon Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_002

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,575	1,749	3,324

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			3		2		5		12:00			11		18		29	
00:15			1		1		2		12:15			14		19		33	
00:30			3		1		4		12:30			17		20		37	
00:45			2	9	0	4	2	13	12:45			22	64	15	72	37	136
01:00			0		0		0		13:00			19		19		38	
01:15			1		0		1		13:15			16		19		35	
01:30			0		0		0		13:30			19		18		37	
01:45			0	1	0		0	1	13:45			15	69	17	73	32	142
02:00			0		0		0		14:00			14		18		32	
02:15			1		0		1		14:15			18		22		40	
02:30			1		0		1		14:30			15		18		33	
02:45			1	3	2	2	3	5	14:45			25	72	27	85	52	157
03:00			0		1		1		15:00			30		34		64	
03:15			1		2		3		15:15			38		23		61	
03:30			0		1		1		15:30			31		52		83	
03:45			0	1	2	6	2	7	15:45			26	125	28	137	54	262
04:00			0		5		5		16:00			33		34		67	
04:15			0		3		3		16:15			54		39		93	
04:30			1		5		6		16:30			43		52		95	
04:45			0	1	5	18	5	19	16:45			36	166	43	168	79	334
05:00			6		14		20		17:00			46		32		78	
05:15			4		18		22		17:15			36		42		78	
05:30			5		13		18		17:30			42		37		79	
05:45			7	22	17	62	24	84	17:45			40	164	50	161	90	325
06:00			12		14		26		18:00			36		41		77	
06:15			21		19		40		18:15			27		28		55	
06:30			21		32		53		18:30			21		38		59	
06:45			27	81	43	108	70	189	18:45			14	98	15	122	29	220
07:00			35		46		81		19:00			21		21		42	
07:15			44		44		88		19:15			8		11		19	
07:30			46		52		98		19:30			10		19		29	
07:45			52	177	33	175	85	352	19:45			13	52	7	58	20	110
08:00			43		51		94		20:00			8		3		11	
08:15			39		35		74		20:15			17		10		27	
08:30			34		37		71		20:30			10		7		17	
08:45			21	137	25	148	46	285	20:45			7	42	5	25	12	67
09:00			23		28		51		21:00			5		11		16	
09:15			18		24		42		21:15			16		10		26	
09:30			23		32		55		21:30			10		4		14	
09:45			12	76	15	99	27	175	21:45			11	42	7	32	18	74
10:00			15		25		40		22:00			6		8		14	
10:15			13		20		33		22:15			5		7		12	
10:30			18		21		39		22:30			6		7		13	
10:45			13	59	21	87	34	146	22:45			10	27	3	25	13	52
11:00			17		16		33		23:00			5		2		7	
11:15			14		15		29		23:15			7		6		13	
11:30			17		13		30		23:30			7		3		10	
11:45			17	65	24	68	41	133	23:45			3	22	3	14	6	36
TOTALS				632		777		**1409**	**TOTALS**				943		972		**1915**
SPLIT %				44.9%		55.1%		**42.4%**	**SPLIT %**				49.2%		50.8%		**57.6%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,575	1,749	3,324

AM Peak Hour			07:15	06:45	**07:15**	**PM Peak Hour**			16:15	17:15	**16:15**
AM Pk Volume			185	185	**365**	**PM Pk Volume**			179	170	**345**
Pk Hr Factor			0.889	0.889	**0.931**	**Pk Hr Factor**			0.829	0.850	**0.908**
7 - 9 Volume	0	0	314	323	**637**	**4 - 6 Volume**	0	0	330	329	**659**
7 - 9 Peak Hour			07:15	07:15	**07:15**	**4 - 6 Peak Hour**			16:15	16:30	**16:15**
7 - 9 Pk Volume	0	0	185	180	**365**	**4 - 6 Pk Volume**	0	0	179	169	**345**
Pk Hr Factor	0.000	0.000	0.889	0.865	**0.931**	**Pk Hr Factor**	0.000	0.000	0.829	0.813	**0.908**

Prepared by NDS/ATD

VOLUME

Woolsey Canyon Rd Bet. Valley Cir Blvd & Knapp Ranch Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_003

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,225	1,192	2,417

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			4		4		8		12:00			9		9		18	
00:15			1		3		4		12:15			18		15		33	
00:30			1		6		7		12:30			12		15		27	
00:45			1	7	3	16	4	23	12:45			20	59	13	52	33	111
01:00			3		0		3		13:00			14		15		29	
01:15			2		5		7		13:15			12		13		25	
01:30			2		2		4		13:30			17		11		28	
01:45			3	10	2	9	5	19	13:45			20	63	25	64	45	127
02:00			1		1		2		14:00			12		25		37	
02:15			0		2		2		14:15			15		14		29	
02:30			0		1		1		14:30			17		15		32	
02:45			1	2	0	4	1	6	14:45			12	56	16	70	28	126
03:00			0		0		0		15:00			10		26		36	
03:15			0		3		3		15:15			25		13		38	
03:30			2		1		3		15:30			11		26		37	
03:45			3	5	0	4	3	9	15:45			30	76	30	95	60	171
04:00			0		0		0		16:00			29		34		63	
04:15			4		0		4		16:15			48		30		78	
04:30			4		1		5		16:30			20		33		53	
04:45			4	12	4	5	8	17	16:45			23	120	23	120	46	240
05:00			6		0		6		17:00			23		45		68	
05:15			7		3		10		17:15			23		24		47	
05:30			6		3		9		17:30			18		40		58	
05:45			15	34	7	13	22	47	17:45			12	76	23	132	35	208
06:00			20		7		27		18:00			10		28		38	
06:15			18		5		23		18:15			15		15		30	
06:30			29		4		33		18:30			11		16		27	
06:45			15	82	5	21	20	103	18:45			16	52	30	89	46	141
07:00			42		12		54		19:00			14		21		35	
07:15			42		5		47		19:15			7		16		23	
07:30			30		11		41		19:30			8		15		23	
07:45			55	169	16	44	71	213	19:45			13	42	21	73	34	115
08:00			38		17		55		20:00			7		20		27	
08:15			14		18		32		20:15			7		21		28	
08:30			17		6		23		20:30			8		14		22	
08:45			18	87	9	50	27	137	20:45			5	27	17	72	22	99
09:00			11		6		17		21:00			4		22		26	
09:15			23		10		33		21:15			6		14		20	
09:30			15		7		22		21:30			3		20		23	
09:45			17	66	10	33	27	99	21:45			3	16	13	69	16	85
10:00			13		10		23		22:00			4		12		16	
10:15			15		11		26		22:15			3		7		10	
10:30			15		11		26		22:30			5		14		19	
10:45			15	58	11	43	26	101	22:45			7	19	11	44	18	63
11:00			17		9		26		23:00			7		10		17	
11:15			20		10		30		23:15			8		5		13	
11:30			16		9		25		23:30			6		6		12	
11:45			10	63	16	44	26	107	23:45			3	24	5	26	8	50
TOTALS				595		286		**881**	**TOTALS**				630		906		**1536**
SPLIT %				67.5%		32.5%		**36.5%**	**SPLIT %**				41.0%		59.0%		**63.5%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,225	1,192	2,417

AM Peak Hour			07:00	07:30	**07:15**	**PM Peak Hour**			15:45	16:45	**15:45**
AM Pk Volume			169	62	**214**	**PM Pk Volume**			127	132	**254**
Pk Hr Factor			0.768	0.861	**0.754**	**Pk Hr Factor**			0.661	0.733	**0.814**
7 - 9 Volume	0	0	256	94	**350**	**4 - 6 Volume**	0	0	196	252	**448**
7 - 9 Peak Hour			07:00	07:30	**07:15**	**4 - 6 Peak Hour**			16:00	16:45	**16:15**
7 - 9 Pk Volume	0	0	169	62	**214**	**4 - 6 Pk Volume**	0	0	120	132	**245**
Pk Hr Factor	0.000	0.000	0.768	0.861	**0.754**	**Pk Hr Factor**	0.000	0.000	0.625	0.733	**0.785**

Prepared by NDS/ATD

VOLUME

Valley Cir Blvd Bet. Box Canyon Rd & Woolsey Canyon Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_004

DAILY TOTALS	NB	SB	EB	WB	Total
	4,511	4,275	0	0	8,786

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	6		3				9		12:00	43		38				81	
00:15	1		4				5		12:15	43		47				90	
00:30	4		3				7		12:30	49		43				92	
00:45	2	13	1	11			3	24	12:45	45	180	61	189			106	369
01:00	6		0				6		13:00	60		40				100	
01:15	3		1				4		13:15	41		64				105	
01:30	3		2				5		13:30	33		54				87	
01:45	0	12	3	6			3	18	13:45	63	197	63	221			126	418
02:00	0		1				1		14:00	52		48				100	
02:15	0		1				1		14:15	63		65				128	
02:30	2		1				3		14:30	75		55				130	
02:45	2	4	0	3			2	7	14:45	65	255	61	229			126	484
03:00	0		1				1		15:00	88		65				153	
03:15	2		4				6		15:15	117		74				191	
03:30	2		0				2		15:30	126		51				177	
03:45	2	6	2	7			4	13	15:45	122	453	92	282			214	735
04:00	1		2				3		16:00	142		51				193	
04:15	0		3				3		16:15	159		87				246	
04:30	4		1				5		16:30	118		69				187	
04:45	2	7	5	11			7	18	16:45	124	543	62	269			186	812
05:00	7		4				11		17:00	148		64				212	
05:15	11		10				21		17:15	181		69				250	
05:30	5		14				19		17:30	156		66				222	
05:45	10	33	19	47			29	80	17:45	103	588	58	257			161	845
06:00	17		26				43		18:00	109		69				178	
06:15	16		40				56		18:15	114		59				173	
06:30	27		64				91		18:30	64		54				118	
06:45	51	111	118	248			169	359	18:45	63	350	43	225			106	575
07:00	83		153				236		19:00	56		39				95	
07:15	91		189				280		19:15	33		36				69	
07:30	134		164				298		19:30	41		36				77	
07:45	148	456	161	667			309	1123	19:45	30	160	36	147			66	307
08:00	116		161				277		20:00	25		24				49	
08:15	83		171				254		20:15	39		25				64	
08:30	52		113				165		20:30	24		18				42	
08:45	53	304	97	542			150	846	20:45	26	114	16	83			42	197
09:00	45		81				126		21:00	23		25				48	
09:15	38		64				102		21:15	21		15				36	
09:30	54		70				124		21:30	20		22				42	
09:45	70	207	57	272			127	479	21:45	11	75	10	72			21	147
10:00	46		48				94		22:00	15		13				28	
10:15	44		58				102		22:15	14		14				28	
10:30	37		48				85		22:30	10		16				26	
10:45	41	168	48	202			89	370	22:45	10	49	10	53			20	102
11:00	36		45				81		23:00	12		11				23	
11:15	46		55				101		23:15	4		10				14	
11:30	61		37				98		23:30	14		5				19	
11:45	49	192	62	199			111	391	23:45	4	34	7	33			11	67
TOTALS		1513		2215				3728	TOTALS		2998		2060				5058
SPLIT %		40.6%		59.4%				42.4%	SPLIT %		59.3%		40.7%				57.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,511	4,275	0	0	8,786

AM Peak Hour	07:15	07:15				07:15	PM Peak Hour	16:45	15:45				16:45
AM Pk Volume	489	675				1164	PM Pk Volume	609	299				870
Pk Hr Factor	0.826	0.893				0.942	Pk Hr Factor	0.841	0.813				0.870
7 - 9 Volume	760	1209	0	0		1969	4 - 6 Volume	1131	526	0	0		1657
7 - 9 Peak Hour	07:15	07:15				07:15	4 - 6 Peak Hour	16:45	16:15				16:45
7 - 9 Pk Volume	489	675	0	0		1164	4 - 6 Pk Volume	609	282	0	0		870
Pk Hr Factor	0.826	0.893	0.000	0.000		0.942	Pk Hr Factor	0.841	0.810	0.000	0.000		0.870

Prepared by NDS/ATD

VOLUME

Valley Cir Blvd Bet. Plummer St & Schumann Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_005

DAILY TOTALS	NB	SB	EB	WB	Total
	3,328	2,858	0	0	6,186

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	2		6				8		12:00	41		30				71	
00:15	2		7				9		12:15	42		46				88	
00:30	3		6				9		12:30	40		28				68	
00:45	3	10	1	20			4	30	12:45	46	169	29	133			75	302
01:00	2		1				3		13:00	59		39				98	
01:15	1		0				1		13:15	41		47				88	
01:30	4		4				8		13:30	29		31				60	
01:45	0	7	6	11			6	18	13:45	53	182	39	156			92	338
02:00	0		1				1		14:00	33		37				70	
02:15	0		4				4		14:15	59		44				103	
02:30	2		0				2		14:30	61		48				109	
02:45	2	4	0	5			2	9	14:45	53	206	52	181			105	387
03:00	0		0				0		15:00	50		45				95	
03:15	2		2				4		15:15	54		70				124	
03:30	1		1				2		15:30	65		65				130	
03:45	1	4	1	4			2	8	15:45	65	234	65	245			130	479
04:00	2		0				2		16:00	69		53				122	
04:15	5		1				6		16:15	70		54				124	
04:30	5		0				5		16:30	52		56				108	
04:45	8	20	5	6			13	26	16:45	65	256	61	224			126	480
05:00	10		3				13		17:00	78		58				136	
05:15	17		5				22		17:15	62		77				139	
05:30	14		8				22		17:30	60		68				128	
05:45	20	61	4	20			24	81	17:45	62	262	59	262			121	524
06:00	26		9				35		18:00	47		71				118	
06:15	30		16				46		18:15	52		53				105	
06:30	31		31				62		18:30	46		47				93	
06:45	62	149	42	98			104	247	18:45	33	178	32	203			65	381
07:00	62		41				103		19:00	35		41				76	
07:15	85		62				147		19:15	22		39				61	
07:30	136		65				201		19:30	18		33				51	
07:45	116	399	53	221			169	620	19:45	25	100	38	151			63	251
08:00	126		44				170		20:00	23		30				53	
08:15	88		50				138		20:15	25		32				57	
08:30	74		60				134		20:30	10		28				38	
08:45	55	343	53	207			108	550	20:45	12	70	26	116			38	186
09:00	60		39				99		21:00	19		31				50	
09:15	52		34				86		21:15	8		17				25	
09:30	39		31				70		21:30	17		25				42	
09:45	62	213	41	145			103	358	21:45	12	56	16	89			28	145
10:00	50		25				75		22:00	9		17				26	
10:15	42		29				71		22:15	10		18				28	
10:30	49		24				73		22:30	10		16				26	
10:45	32	173	22	100			54	273	22:45	6	35	18	69			24	104
11:00	47		29				76		23:00	10		13				23	
11:15	43		42				85		23:15	4		8				12	
11:30	44		39				83		23:30	6		7				13	
11:45	40	174	43	153			83	327	23:45	3	23	11	39			14	62
TOTALS		1557		990				**2547**	**TOTALS**		1771		1868				**3639**
SPLIT %		61.1%		38.9%				**41.2%**	**SPLIT %**		48.7%		51.3%				**58.8%**

DAILY TOTALS	NB	SB	EB	WB	Total
	3,328	2,858	0	0	6,186

AM Peak Hour	07:30	07:15				**07:15**	**PM Peak Hour**	15:30	17:15				**16:45**
AM Pk Volume	466	224				**687**	**PM Pk Volume**	269	275				**529**
Pk Hr Factor	0.857	0.862				**0.854**	**Pk Hr Factor**	0.961	0.893				**0.951**
7 - 9 Volume	742	428	0	0		**1170**	**4 - 6 Volume**	518	486	0	0		**1004**
7 - 9 Peak Hour	07:30	07:15				**07:15**	**4 - 6 Peak Hour**	16:15	16:45				**16:45**
7 - 9 Pk Volume	466	224	0	0		**687**	**4 - 6 Pk Volume**	265	264	0	0		**529**
Pk Hr Factor	0.857	0.862	0.000	0.000		**0.854**	**Pk Hr Factor**	0.849	0.857	0.000	0.000		**0.951**

Prepared by NDS/ATD

VOLUME

Plummer St W/O Farralone Ave

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_006

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	3,554	3,257	6,811

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			3		5		8		12:00			37		29		66	
00:15			0		10		10		12:15			37		41		78	
00:30			2		5		7		12:30			35		34		69	
00:45			5	10	0	20	5	30	12:45			36	145	20	124	56	269
01:00			1		1		2		13:00			56		47		103	
01:15			1		3		4		13:15			48		48		96	
01:30			4		4		8		13:30			38		35		73	
01:45			0	6	4	12	4	18	13:45			50	192	43	173	93	365
02:00			0		2		2		14:00			31		44		75	
02:15			1		4		5		14:15			42		36		78	
02:30			2		0		2		14:30			39		40		79	
02:45			0	3	1	7	1	10	14:45			38	150	59	179	97	329
03:00			1		0		1		15:00			45		62		107	
03:15			0		3		3		15:15			61		69		130	
03:30			1		0		1		15:30			52		80		132	
03:45			2	4	1	4	3	8	15:45			65	223	89	300	154	523
04:00			4		0		4		16:00			54		95		149	
04:15			4		1		5		16:15			72		86		158	
04:30			5		0		5		16:30			66		105		171	
04:45			8	21	2	3	10	24	16:45			67	259	111	397	178	656
05:00			11		2		13		17:00			83		93		176	
05:15			11		3		14		17:15			65		96		161	
05:30			17		6		23		17:30			58		105		163	
05:45			19	58	5	16	24	74	17:45			73	279	113	407	186	686
06:00			29		9		38		18:00			54		76		130	
06:15			32		18		50		18:15			43		55		98	
06:30			31		25		56		18:30			40		48		88	
06:45			60	152	33	85	93	237	18:45			35	172	48	227	83	399
07:00			114		37		151		19:00			26		51		77	
07:15			127		37		164		19:15			26		43		69	
07:30			133		36		169		19:30			17		34		51	
07:45			146	520	41	151	187	671	19:45			26	95	42	170	68	265
08:00			153		54		207		20:00			19		31		50	
08:15			125		45		170		20:15			24		46		70	
08:30			109		60		169		20:30			10		30		40	
08:45			74	461	42	201	116	662	20:45			17	70	30	137	47	207
09:00			67		51		118		21:00			11		26		37	
09:15			59		34		93		21:15			11		22		33	
09:30			65		51		116		21:30			9		25		34	
09:45			63	254	29	165	92	419	21:45			13	44	25	98	38	142
10:00			51		27		78		22:00			13		18		31	
10:15			56		33		89		22:15			11		19		30	
10:30			45		28		73		22:30			13		17		30	
10:45			50	202	27	115	77	317	22:45			5	42	19	73	24	115
11:00			39		35		74		23:00			14		14		28	
11:15			49		36		85		23:15			3		12		15	
11:30			45		41		86		23:30			4		8		12	
11:45			33	166	39	151	72	317	23:45			5	26	8	42	13	68
TOTALS				1857		930		**2787**	**TOTALS**				1697		2327		**4024**
SPLIT %				66.6%		33.4%		**40.9%**	**SPLIT %**				42.2%		57.8%		**59.1%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	3,554	3,257	6,811

AM Peak Hour			07:15	08:00	**07:30**	**PM Peak Hour**			16:15	17:00	**16:30**
AM Pk Volume			559	201	**733**	**PM Pk Volume**			288	407	**686**
Pk Hr Factor			0.913	0.838	**0.885**	**Pk Hr Factor**			0.867	0.900	**0.963**
7 - 9 Volume	0	0	981	352	**1333**	**4 - 6 Volume**	0	0	538	804	**1342**
7 - 9 Peak Hour			07:15	08:00	**07:30**	**4 - 6 Peak Hour**			16:15	17:00	**16:30**
7 - 9 Pk Volume	0	0	559	201	**733**	**4 - 6 Pk Volume**	0	0	288	407	**686**
Pk Hr Factor	0.000	0.000	0.913	0.838	**0.885**	**Pk Hr Factor**	0.000	0.000	0.867	0.900	**0.963**

Prepared by NDS/ATD

VOLUME

Valley Cir Blvd Bet. Woolsey Canyon Rd & Chatlake Dr

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_007

DAILY TOTALS	NB	SB	EB	WB	Total
	4,823	4,664	0	0	9,487

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	6		4				10		12:00	42		39				81	
00:15	4		4				8		12:15	50		48				98	
00:30	6		2				8		12:30	53		42				95	
00:45	4	20	4	14			8	34	12:45	43	188	56	185			99	373
01:00	3		3				6		13:00	61		45				106	
01:15	5		4				9		13:15	48		54				102	
01:30	2		2				4		13:30	34		62				96	
01:45	0	10	3	12			3	22	13:45	68	211	55	216			123	427
02:00	2		2				4		14:00	71		49				120	
02:15	1		2				3		14:15	68		58				126	
02:30	1		0				1		14:30	75		54				129	
02:45	1	5	0	4			1	9	14:45	70	284	55	216			125	500
03:00	0		1				1		15:00	88		78				166	
03:15	4		3				7		15:15	148		82				230	
03:30	0		0				0		15:30	128		68				196	
03:45	1	5	6	10			7	15	15:45	145	509	78	306			223	815
04:00	1		3				4		16:00	141		79				220	
04:15	0		6				6		16:15	178		93				271	
04:30	3		5				8		16:30	116		93				209	
04:45	2	6	8	22			10	28	16:45	151	586	57	322			208	908
05:00	3		10				13		17:00	160		85				245	
05:15	8		11				19		17:15	211		65				276	
05:30	4		16				20		17:30	157		76				233	
05:45	12	27	27	64			39	91	17:45	133	661	53	279			186	940
06:00	8		33				41		18:00	116		69				185	
06:15	20		53				73		18:15	114		61				175	
06:30	18		77				95		18:30	70		49				119	
06:45	47	93	132	295			179	388	18:45	70	370	43	222			113	592
07:00	54		194				248		19:00	62		43				105	
07:15	106		198				304		19:15	31		34				65	
07:30	112		192				304		19:30	46		39				85	
07:45	160	432	176	760			336	1192	19:45	38	177	34	150			72	327
08:00	110		193				303		20:00	42		25				67	
08:15	93		167				260		20:15	45		28				73	
08:30	53		137				190		20:30	26		19				45	
08:45	50	306	97	594			147	900	20:45	36	149	23	95			59	244
09:00	46		92				138		21:00	30		21				51	
09:15	43		74				117		21:15	27		18				45	
09:30	59		80				139		21:30	33		21				54	
09:45	71	219	65	311			136	530	21:45	20	110	12	72			32	182
10:00	45		42				87		22:00	17		10				27	
10:15	47		63				110		22:15	18		18				36	
10:30	38		48				86		22:30	18		18				36	
10:45	36	166	50	203			86	369	22:45	14	67	17	63			31	130
11:00	38		48				86		23:00	15		19				34	
11:15	45		57				102		23:15	7		16				23	
11:30	55		37				92		23:30	8		13				21	
11:45	50	188	53	195			103	383	23:45	4	34	6	54			10	88
TOTALS		1477		2484				3961	TOTALS		3346		2180				5526
SPLIT %		37.3%		62.7%				41.8%	SPLIT %		60.6%		39.4%				58.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,823	4,664	0	0	9,487

AM Peak Hour	07:15	07:00				07:15	PM Peak Hour	16:45	15:45				16:45
AM Pk Volume	488	760				1247	PM Pk Volume	679	343				962
Pk Hr Factor	0.763	0.960				0.928	Pk Hr Factor	0.805	0.922				0.871
7 - 9 Volume	738	1354	0	0		2092	4 - 6 Volume	1247	601	0	0		1848
7 - 9 Peak Hour	07:15	07:00				07:15	4 - 6 Peak Hour	16:45	16:15				16:45
7 - 9 Pk Volume	488	760	0	0		1247	4 - 6 Pk Volume	679	328	0	0		962
Pk Hr Factor	0.763	0.960	0.000	0.000		0.928	Pk Hr Factor	0.805	0.882	0.000	0.000		0.871

Prepared by NDS/ATD

VOLUME

Roscoe Blvd E/O Woodlake Ave

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_008

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	6,175	6,133	12,308

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			8		16		24		12:00			102		107		209	
00:15			9		12		21		12:15			92		79		171	
00:30			5		12		17		12:30			100		94		194	
00:45			4	26	11	51	15	77	12:45			119	413	91	371	210	784
01:00			5		8		13		13:00			110		92		202	
01:15			4		12		16		13:15			81		75		156	
01:30			3		11		14		13:30			103		88		191	
01:45			4	16	6	37	10	53	13:45			101	395	104	359	205	754
02:00			7		6		13		14:00			95		100		195	
02:15			3		2		5		14:15			109		107		216	
02:30			2		2		4		14:30			97		106		203	
02:45			2	14	5	15	7	29	14:45			83	384	95	408	178	792
03:00			1		5		6		15:00			93		110		203	
03:15			3		4		7		15:15			109		110		219	
03:30			3		4		7		15:30			121		111		232	
03:45			4	11	3	16	7	27	15:45			114	437	123	454	237	891
04:00			5		1		6		16:00			97		121		218	
04:15			6		2		8		16:15			100		124		224	
04:30			6		3		9		16:30			118		138		256	
04:45			11	28	9	15	20	43	16:45			102	417	126	509	228	926
05:00			21		3		24		17:00			108		140		248	
05:15			17		8		25		17:15			103		151		254	
05:30			26		11		37		17:30			108		158		266	
05:45			32	96	20	42	52	138	17:45			97	416	154	603	251	1019
06:00			42		16		58		18:00			82		127		209	
06:15			47		26		73		18:15			84		111		195	
06:30			66		35		101		18:30			86		125		211	
06:45			87	242	47	124	134	366	18:45			75	327	122	485	197	812
07:00			101		47		148		19:00			61		92		153	
07:15			155		60		215		19:15			53		97		150	
07:30			175		66		241		19:30			42		83		125	
07:45			187	618	90	263	277	881	19:45			34	190	64	336	98	526
08:00			180		71		251		20:00			52		74		126	
08:15			148		82		230		20:15			35		70		105	
08:30			100		86		186		20:30			30		50		80	
08:45			115	543	110	349	225	892	20:45			39	156	54	248	93	404
09:00			107		83		190		21:00			31		52		83	
09:15			103		73		176		21:15			35		64		99	
09:30			104		62		166		21:30			23		61		84	
09:45			115	429	78	296	193	725	21:45			29	118	57	234	86	352
10:00			84		92		176		22:00			23		39		62	
10:15			94		79		173		22:15			19		38		57	
10:30			103		73		176		22:30			12		54		66	
10:45			94	375	83	327	177	702	22:45			14	68	34	165	48	233
11:00			95		84		179		23:00			11		28		39	
11:15			113		98		211		23:15			11		22		33	
11:30			100		82		182		23:30			13		17		30	
11:45			105	413	81	345	186	758	23:45			8	43	14	81	22	124
TOTALS				2811		1880		**4691**	**TOTALS**				3364		4253		**7617**
SPLIT %				59.9%		40.1%		**38.1%**	**SPLIT %**				44.2%		55.8%		**61.9%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	6,175	6,133	12,308

AM Peak Hour			07:15	11:15	**07:30**	**PM Peak Hour**			15:15	17:00	**17:00**
AM Pk Volume			697	368	**999**	**PM Pk Volume**			441	603	**1019**
Pk Hr Factor			0.932	0.860	**0.902**	**Pk Hr Factor**			0.911	0.954	**0.958**
7 - 9 Volume	0	0	1161	612	**1773**	**4 - 6 Volume**	0	0	833	1112	**1945**
7 - 9 Peak Hour			07:15	08:00	**07:30**	**4 - 6 Peak Hour**			16:30	17:00	**17:00**
7 - 9 Pk Volume	0	0	697	349	**999**	**4 - 6 Pk Volume**	0	0	431	603	**1019**
Pk Hr Factor	0.000	0.000	0.932	0.793	**0.902**	**Pk Hr Factor**	0.000	0.000	0.913	0.954	**0.958**

Prepared by NDS/ATD

VOLUME

Roscoe Blvd Bet. Shoup Ave & Farralone Ave

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_009

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	15,485	15,588	31,073

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			31		26		57		12:00			248		193		441	
00:15			18		23		41		12:15			198		222		420	
00:30			32		16		48		12:30			214		229		443	
00:45			21	102	24	89	45	191	12:45			225	885	230	874	455	1759
01:00			14		10		24		13:00			220		220		440	
01:15			17		16		33		13:15			216		304		520	
01:30			11		16		27		13:30			263		261		524	
01:45			12	54	13	55	25	109	13:45			270	969	276	1061	546	2030
02:00			9		14		23		14:00			226		228		454	
02:15			11		11		22		14:15			259		211		470	
02:30			4		16		20		14:30			235		223		458	
02:45			5	29	14	55	19	84	14:45			226	946	270	932	496	1878
03:00			5		9		14		15:00			307		278		585	
03:15			8		14		22		15:15			306		277		583	
03:30			18		10		28		15:30			352		286		638	
03:45			13	44	11	44	24	88	15:45			294	1259	311	1152	605	2411
04:00			11		15		26		16:00			357		319		676	
04:15			17		11		28		16:15			299		285		584	
04:30			23		26		49		16:30			289		305		594	
04:45			24	75	47	99	71	174	16:45			337	1282	284	1193	621	2475
05:00			44		28		72		17:00			317		319		636	
05:15			46		50		96		17:15			352		309		661	
05:30			63		70		133		17:30			340		330		670	
05:45			73	226	97	245	170	471	17:45			362	1371	278	1236	640	2607
06:00			104		98		202		18:00			271		308		579	
06:15			121		124		245		18:15			236		245		481	
06:30			161		194		355		18:30			244		272		516	
06:45			190	576	241	657	431	1233	18:45			207	958	243	1068	450	2026
07:00			185		192		377		19:00			217		241		458	
07:15			225		195		420		19:15			178		214		392	
07:30			283		255		538		19:30			165		168		333	
07:45			260	953	258	900	518	1853	19:45			128	688	176	799	304	1487
08:00			255		272		527		20:00			138		151		289	
08:15			249		269		518		20:15			118		114		232	
08:30			223		276		499		20:30			120		143		263	
08:45			269	996	313	1130	582	2126	20:45			126	502	128	536	254	1038
09:00			219		238		457		21:00			121		126		247	
09:15			226		230		456		21:15			113		115		228	
09:30			242		225		467		21:30			88		111		199	
09:45			302	989	220	913	522	1902	21:45			95	417	115	467	210	884
10:00			227		174		401		22:00			97		87		184	
10:15			214		197		411		22:15			83		82		165	
10:30			187		181		368		22:30			61		62		123	
10:45			207	835	216	768	423	1603	22:45			60	301	61	292	121	593
11:00			225		181		406		23:00			47		57		104	
11:15			217		219		436		23:15			39		52		91	
11:30			217		188		405		23:30			40		36		76	
11:45			215	874	246	834	461	1708	23:45			28	154	44	189	72	343
TOTALS				5753		5789		**11542**	**TOTALS**				9732		9799		**19531**
SPLIT %				49.8%		50.2%		**37.1%**	**SPLIT %**				49.8%		50.2%		**62.9%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	15,485	15,588	31,073

AM Peak Hour			07:30	08:00	**08:00**	**PM Peak Hour**			17:00	16:45	**17:00**
AM Pk Volume			1047	1130	**2126**	**PM Pk Volume**			1371	1242	**2607**
Pk Hr Factor			0.925	0.903	**0.913**	**Pk Hr Factor**			0.947	0.941	**0.973**
7 - 9 Volume	0	0	1949	2030	**3979**	**4 - 6 Volume**	0	0	2653	2429	**5082**
7 - 9 Peak Hour			07:30	08:00	**08:00**	**4 - 6 Peak Hour**			17:00	16:45	**17:00**
7 - 9 Pk Volume	0	0	1047	1130	**2126**	**4 - 6 Pk Volume**	0	0	1371	1242	**2607**
Pk Hr Factor	0.000	0.000	0.925	0.903	**0.913**	**Pk Hr Factor**	0.000	0.000	0.947	0.941	**0.973**

Prepared by NDS/ATD

VOLUME

Valley Circle Blvd Bet. Vanowen St & Victory Blvd

Day: Tuesday
Date: 4/28/2015

City: Calabasas
Project #: CA15_5250_001

DAILY TOTALS	NB	SB	EB	WB	Total
	10,735	10,275	0	0	21,010

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	13		12				25		12:00	109		92				201	
00:15	18		5				23		12:15	112		120				232	
00:30	4		7				11		12:30	113		97				210	
00:45	7	42	7	31			14	73	12:45	140	474	136	445			276	919
01:00	6		3				9		13:00	123		145				268	
01:15	4		3				7		13:15	134		126				260	
01:30	3		3				6		13:30	171		150				321	
01:45	2	15	3	12			5	27	13:45	186	614	129	550			315	1164
02:00	2		0				2		14:00	136		135				271	
02:15	5		1				6		14:15	176		130				306	
02:30	0		1				1		14:30	171		150				321	
02:45	2	9	2	4			4	13	14:45	206	689	148	563			354	1252
03:00	3		3				6		15:00	181		167				348	
03:15	5		5				10		15:15	262		182				444	
03:30	1		5				6		15:30	361		164				525	
03:45	0	9	7	20			7	29	15:45	267	1071	174	687			441	1758
04:00	1		7				8		16:00	259		141				400	
04:15	1		8				9		16:15	287		152				439	
04:30	1		13				14		16:30	254		145				399	
04:45	0	3	12	40			12	43	16:45	292	1092	132	570			424	1662
05:00	4		17				21		17:00	250		155				405	
05:15	3		37				40		17:15	328		164				492	
05:30	6		56				62		17:30	306		133				439	
05:45	2	15	73	183			75	198	17:45	273	1157	143	595			416	1752
06:00	13		95				108		18:00	272		149				421	
06:15	9		123				132		18:15	266		131				397	
06:30	17		183				200		18:30	240		165				405	
06:45	29	68	231	632			260	700	18:45	252	1030	175	620			427	1650
07:00	77		232				309		19:00	219		120				339	
07:15	99		365				464		19:15	225		127				352	
07:30	229		437				666		19:30	156		123				279	
07:45	265	670	360	1394			625	2064	19:45	137	737	138	508			275	1245
08:00	177		247				424		20:00	134		91				225	
08:15	129		309				438		20:15	147		73				220	
08:30	94		262				356		20:30	128		61				189	
08:45	120	520	254	1072			374	1592	20:45	132	541	55	280			187	821
09:00	131		195				326		21:00	107		47				154	
09:15	114		194				308		21:15	84		54				138	
09:30	95		153				248		21:30	79		55				134	
09:45	109	449	146	688			255	1137	21:45	75	345	38	194			113	539
10:00	83		128				211		22:00	83		29				112	
10:15	100		133				233		22:15	66		31				97	
10:30	94		135				229		22:30	48		22				70	
10:45	92	369	128	524			220	893	22:45	59	256	16	98			75	354
11:00	114		110				224		23:00	39		22				61	
11:15	105		106				211		23:15	31		17				48	
11:30	123		131				254		23:30	34		13				47	
11:45	87	429	149	496			236	925	23:45	27	131	17	69			44	200
TOTALS		2598		5096				**7694**	**TOTALS**		8137		5179				**13316**
SPLIT %		33.8%		66.2%				**36.6%**	**SPLIT %**		61.1%		38.9%				**63.4%**

DAILY TOTALS	NB	SB	EB	WB	Total
	10,735	10,275	0	0	21,010

AM Peak Hour	07:30	07:15				**07:15**	**PM Peak Hour**	17:15	15:00				**15:15**
AM Pk Volume	800	1409				**2179**	**PM Pk Volume**	1179	687				**1810**
Pk Hr Factor	0.755	0.806				**0.818**	**Pk Hr Factor**	0.899	0.944				**0.862**
7 - 9 Volume	1190	2466	0	0		**3656**	**4 - 6 Volume**	2249	1165	0	0		**3414**
7 - 9 Peak Hour	07:30	07:15				**07:15**	**4 - 6 Peak Hour**	16:45	16:30				**16:45**
7 - 9 Pk Volume	800	1409	0	0		**2179**	**4 - 6 Pk Volume**	1176	596	0	0		**1760**
Pk Hr Factor	0.755	0.806	0.000	0.000		**0.818**	**Pk Hr Factor**	0.896	0.909	0.000	0.000		**0.894**

Prepared by NDS/ATD

VOLUME

Valley Circle Blvd Bet. Burbank Blvd & US-101

Day: Tuesday
Date: 4/28/2015

City: Calabasas
Project #: CA15_5250_002

DAILY TOTALS	NB	SB	EB	WB	Total
	18,140	16,891	0	0	35,031

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	42		16				58		12:00	201		201				402	
00:15	32		12				44		12:15	224		197				421	
00:30	19		13				32		12:30	235		261				496	
00:45	24	117	10	51			34	168	12:45	237	897	223	882			460	1779
01:00	20		3				23		13:00	229		235				464	
01:15	15		5				20		13:15	264		242				506	
01:30	14		7				21		13:30	276		246				522	
01:45	11	60	2	17			13	77	13:45	266	1035	280	1003			546	2038
02:00	14		0				14		14:00	228		227				455	
02:15	8		3				11		14:15	297		245				542	
02:30	5		1				6		14:30	277		253				530	
02:45	5	32	4	8			9	40	14:45	310	1112	278	1003			588	2115
03:00	8		4				12		15:00	364		227				591	
03:15	10		10				20		15:15	412		344				756	
03:30	6		8				14		15:30	387		308				695	
03:45	4	28	11	33			15	61	15:45	429	1592	251	1130			680	2722
04:00	2		8				10		16:00	384		226				610	
04:15	2		22				24		16:15	408		269				677	
04:30	9		26				35		16:30	396		227				623	
04:45	5	18	35	91			40	109	16:45	416	1604	250	972			666	2576
05:00	15		38				53		17:00	419		239				658	
05:15	16		77				93		17:15	464		251				715	
05:30	22		109				131		17:30	496		239				735	
05:45	26	79	159	383			185	462	17:45	489	1868	220	949			709	2817
06:00	45		182				227		18:00	466		217				683	
06:15	44		223				267		18:15	442		221				663	
06:30	106		298				404		18:30	398		222				620	
06:45	199	394	353	1056			552	1450	18:45	428	1734	206	866			634	2600
07:00	189		351				540		19:00	360		179				539	
07:15	259		474				733		19:15	348		174				522	
07:30	386		480				866		19:30	288		185				473	
07:45	326	1160	468	1773			794	2933	19:45	261	1257	169	707			430	1964
08:00	241		460				701		20:00	267		142				409	
08:15	153		447				600		20:15	215		114				329	
08:30	163		401				564		20:30	201		106				307	
08:45	188	745	383	1691			571	2436	20:45	211	894	98	460			309	1354
09:00	189		336				525		21:00	170		88				258	
09:15	146		344				490		21:15	171		84				255	
09:30	153		317				470		21:30	149		81				230	
09:45	171	659	282	1279			453	1938	21:45	146	636	81	334			227	970
10:00	176		258				434		22:00	155		62				217	
10:15	178		245				423		22:15	129		42				171	
10:30	171		247				418		22:30	120		43				163	
10:45	167	692	271	1021			438	1713	22:45	96	500	44	191			140	691
11:00	169		219				388		23:00	79		28				107	
11:15	194		227				421		23:15	55		33				88	
11:30	221		228				449		23:30	53		18				71	
11:45	196	780	213	887			409	1667	23:45	60	247	25	104			85	351
TOTALS		4764		8290				13054	TOTALS		13376		8601				21977
SPLIT %		36.5%		63.5%				37.3%	SPLIT %		60.9%		39.1%				62.7%

DAILY TOTALS	NB	SB	EB	WB	Total
	18,140	16,891	0	0	35,031

AM Peak Hour	07:15	07:15					07:15		PM Peak Hour	17:15	14:45					17:15		
AM Pk Volume	1212	1882					3094		PM Pk Volume	1915	1157					2842		
Pk Hr Factor	0.785	0.980					0.893		Pk Hr Factor	0.965	0.841					0.967		
7 - 9 Volume	1905	3464	0	0			5369		4 - 6 Volume	3472	1921	0	0			5393		
7 - 9 Peak Hour	07:15	07:15					07:15		4 - 6 Peak Hour	17:00	16:15					17:00		
7 - 9 Pk Volume	1212	1882	0	0			3094		4 - 6 Pk Volume	1868	985	0	0			2817		
Pk Hr Factor	0.785	0.980	0.000	0.000			0.893		Pk Hr Factor	0.942	0.915	0.000	0.000			0.958		

Prepared by NDS/ATD

VOLUME

Box Canyon Rd Bet. Santa Susana Pass Rd & Roberson Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_001

DAILY TOTALS	NB	SB	EB	WB	Total
	1,929	1,761	0	0	3,690

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	1		1				2		12:00	16		16				32	
00:15	0		1				1		12:15	24		14				38	
00:30	0		1				1		12:30	16		22				38	
00:45	0	1	1	4			1	5	12:45	24	80	22	74			46	154
01:00	0		0				0		13:00	18		18				36	
01:15	3		1				4		13:15	18		21				39	
01:30	2		0				2		13:30	18		22				40	
01:45	0	5	0	1			0	6	13:45	26	80	13	74			39	154
02:00	0		0				0		14:00	19		11				30	
02:15	0		0				0		14:15	22		27				49	
02:30	0		1				1		14:30	19		13				32	
02:45	0		1	2			1	2	14:45	31	91	14	65			45	156
03:00	0		1				1		15:00	41		22				63	
03:15	0		1				1		15:15	34		22				56	
03:30	1		0				1		15:30	42		25				67	
03:45	1	2	1	3			2	5	15:45	45	162	15	84			60	246
04:00	2		0				2		16:00	70		21				91	
04:15	2		1				3		16:15	79		21				100	
04:30	1		1				2		16:30	68		24				92	
04:45	3	8	0	2			3	10	16:45	68	285	30	96			98	381
05:00	1		1				2		17:00	83		22				105	
05:15	5		6				11		17:15	99		31				130	
05:30	5		4				9		17:30	99		20				119	
05:45	3	14	10	21			13	35	17:45	68	349	14	87			82	436
06:00	8		21				29		18:00	58		18				76	
06:15	4		21				25		18:15	47		11				58	
06:30	13		58				71		18:30	39		22				61	
06:45	19	44	63	163			82	207	18:45	29	173	12	63			41	236
07:00	28		76				104		19:00	23		8				31	
07:15	26		98				124		19:15	17		13				30	
07:30	43		99				142		19:30	14		16				30	
07:45	49	146	70	343			119	489	19:45	12	66	5	42			17	108
08:00	36		88				124		20:00	7		7				14	
08:15	37		79				116		20:15	11		5				16	
08:30	22		74				96		20:30	8		6				14	
08:45	21	116	54	295			75	411	20:45	9	35	4	22			13	57
09:00	20		31				51		21:00	5		3				8	
09:15	14		30				44		21:15	11		6				17	
09:30	18		40				58		21:30	8		7				15	
09:45	20	72	23	124			43	196	21:45	5	29	11	27			16	56
10:00	20		16				36		22:00	4		3				7	
10:15	14		20				34		22:15	5		11				16	
10:30	19		21				40		22:30	5		5				10	
10:45	14	67	15	72			29	139	22:45	2	16	5	24			7	40
11:00	17		14				31		23:00	3		4				7	
11:15	15		17				32		23:15	3		5				8	
11:30	15		18				33		23:30	4		0				4	
11:45	30	77	14	63			44	140	23:45	1	11	1	10			2	21
TOTALS		552		1093				**1645**	**TOTALS**		1377		668				**2045**
SPLIT %		33.6%		66.4%				**44.6%**	**SPLIT %**		67.3%		32.7%				**55.4%**

DAILY TOTALS	NB	SB	EB	WB	Total
	1,929	1,761	0	0	3,690

AM Peak Hour	07:30	07:15				**07:15**	**PM Peak Hour**	16:45	16:30				**16:45**
AM Pk Volume	165	355				**509**	**PM Pk Volume**	349	107				**452**
Pk Hr Factor	0.842	0.896				**0.896**	**Pk Hr Factor**	0.881	0.863				**0.869**
7 - 9 Volume	262	638	0	0		**900**	**4 - 6 Volume**	634	183	0	0		**817**
7 - 9 Peak Hour	07:30	07:15				**07:15**	**4 - 6 Peak Hour**	16:45	16:30				**16:45**
7 - 9 Pk Volume	165	355	0	0		**509**	**4 - 6 Pk Volume**	349	107	0	0		**452**
Pk Hr Factor	0.842	0.896	0.000	0.000		**0.896**	**Pk Hr Factor**	0.881	0.863	0.000	0.000		**0.869**

Prepared by NDS/ATD

VOLUME

Santa Susana Pass Rd Bet. Rocky Peak Rd & Box Canyon Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_002

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,575	1,749	3,324

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			3		2		5		12:00			11		18		29	
00:15			1		1		2		12:15			14		19		33	
00:30			3		1		4		12:30			17		20		37	
00:45			2	9	0	4	2	13	12:45			22	64	15	72	37	136
01:00			0		0		0		13:00			19		19		38	
01:15			1		0		1		13:15			16		19		35	
01:30			0		0		0		13:30			19		18		37	
01:45			0	1	0		0	1	13:45			15	69	17	73	32	142
02:00			0		0		0		14:00			14		18		32	
02:15			1		0		1		14:15			18		22		40	
02:30			1		0		1		14:30			15		18		33	
02:45			1	3	2	2	3	5	14:45			25	72	27	85	52	157
03:00			0		1		1		15:00			30		34		64	
03:15			1		2		3		15:15			38		23		61	
03:30			0		1		1		15:30			31		52		83	
03:45			0	1	2	6	2	7	15:45			26	125	28	137	54	262
04:00			0		5		5		16:00			33		34		67	
04:15			0		3		3		16:15			54		39		93	
04:30			1		5		6		16:30			43		52		95	
04:45			0	1	5	18	5	19	16:45			36	166	43	168	79	334
05:00			6		14		20		17:00			46		32		78	
05:15			4		18		22		17:15			36		42		78	
05:30			5		13		18		17:30			42		37		79	
05:45			7	22	17	62	24	84	17:45			40	164	50	161	90	325
06:00			12		14		26		18:00			36		41		77	
06:15			21		19		40		18:15			27		28		55	
06:30			21		32		53		18:30			21		38		59	
06:45			27	81	43	108	70	189	18:45			14	98	15	122	29	220
07:00			35		46		81		19:00			21		21		42	
07:15			44		44		88		19:15			8		11		19	
07:30			46		52		98		19:30			10		19		29	
07:45			52	177	33	175	85	352	19:45			13	52	7	58	20	110
08:00			43		51		94		20:00			8		3		11	
08:15			39		35		74		20:15			17		10		27	
08:30			34		37		71		20:30			10		7		17	
08:45			21	137	25	148	46	285	20:45			7	42	5	25	12	67
09:00			23		28		51		21:00			5		11		16	
09:15			18		24		42		21:15			16		10		26	
09:30			23		32		55		21:30			10		4		14	
09:45			12	76	15	99	27	175	21:45			11	42	7	32	18	74
10:00			15		25		40		22:00			6		8		14	
10:15			13		20		33		22:15			5		7		12	
10:30			18		21		39		22:30			6		7		13	
10:45			13	59	21	87	34	146	22:45			10	27	3	25	13	52
11:00			17		16		33		23:00			5		2		7	
11:15			14		15		29		23:15			7		6		13	
11:30			17		13		30		23:30			7		3		10	
11:45			17	65	24	68	41	133	23:45			3	22	3	14	6	36
TOTALS				632		777		**1409**	**TOTALS**				943		972		**1915**
SPLIT %				44.9%		55.1%		**42.4%**	**SPLIT %**				49.2%		50.8%		**57.6%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,575	1,749	3,324

AM Peak Hour			07:15	06:45	**07:15**	**PM Peak Hour**			16:15	17:15	**16:15**
AM Pk Volume			185	185	**365**	**PM Pk Volume**			179	170	**345**
Pk Hr Factor			0.889	0.889	**0.931**	**Pk Hr Factor**			0.829	0.850	**0.908**
7 - 9 Volume	0	0	314	323	**637**	**4 - 6 Volume**	0	0	330	329	**659**
7 - 9 Peak Hour			07:15	07:15	**07:15**	**4 - 6 Peak Hour**			16:15	16:30	**16:15**
7 - 9 Pk Volume	0	0	185	180	**365**	**4 - 6 Pk Volume**	0	0	179	169	**345**
Pk Hr Factor	0.000	0.000	0.889	0.865	**0.931**	**Pk Hr Factor**	0.000	0.000	0.829	0.813	**0.908**

Prepared by NDS/ATD

VOLUME

Woolsey Canyon Rd Bet. Valley Cir Blvd & Knapp Ranch Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_003

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,225	1,192	2,417

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			4		4		8		12:00			9		9		18	
00:15			1		3		4		12:15			18		15		33	
00:30			1		6		7		12:30			12		15		27	
00:45			1	7	3	16	4	23	12:45			20	59	13	52	33	111
01:00			3		0		3		13:00			14		15		29	
01:15			2		5		7		13:15			12		13		25	
01:30			2		2		4		13:30			17		11		28	
01:45			3	10	2	9	5	19	13:45			20	63	25	64	45	127
02:00			1		1		2		14:00			12		25		37	
02:15			0		2		2		14:15			15		14		29	
02:30			0		1		1		14:30			17		15		32	
02:45			1	2	0	4	1	6	14:45			12	56	16	70	28	126
03:00			0		0		0		15:00			10		26		36	
03:15			0		3		3		15:15			25		13		38	
03:30			2		1		3		15:30			11		26		37	
03:45			3	5	0	4	3	9	15:45			30	76	30	95	60	171
04:00			0		0		0		16:00			29		34		63	
04:15			4		0		4		16:15			48		30		78	
04:30			4		1		5		16:30			20		33		53	
04:45			4	12	4	5	8	17	16:45			23	120	23	120	46	240
05:00			6		0		6		17:00			23		45		68	
05:15			7		3		10		17:15			23		24		47	
05:30			6		3		9		17:30			18		40		58	
05:45			15	34	7	13	22	47	17:45			12	76	23	132	35	208
06:00			20		7		27		18:00			10		28		38	
06:15			18		5		23		18:15			15		15		30	
06:30			29		4		33		18:30			11		16		27	
06:45			15	82	5	21	20	103	18:45			16	52	30	89	46	141
07:00			42		12		54		19:00			14		21		35	
07:15			42		5		47		19:15			7		16		23	
07:30			30		11		41		19:30			8		15		23	
07:45			55	169	16	44	71	213	19:45			13	42	21	73	34	115
08:00			38		17		55		20:00			7		20		27	
08:15			14		18		32		20:15			7		21		28	
08:30			17		6		23		20:30			8		14		22	
08:45			18	87	9	50	27	137	20:45			5	27	17	72	22	99
09:00			11		6		17		21:00			4		22		26	
09:15			23		10		33		21:15			6		14		20	
09:30			15		7		22		21:30			3		20		23	
09:45			17	66	10	33	27	99	21:45			3	16	13	69	16	85
10:00			13		10		23		22:00			4		12		16	
10:15			15		11		26		22:15			3		7		10	
10:30			15		11		26		22:30			5		14		19	
10:45			15	58	11	43	26	101	22:45			7	19	11	44	18	63
11:00			17		9		26		23:00			7		10		17	
11:15			20		10		30		23:15			8		5		13	
11:30			16		9		25		23:30			6		6		12	
11:45			10	63	16	44	26	107	23:45			3	24	5	26	8	50
TOTALS				595		286		**881**	**TOTALS**				630		906		**1536**
SPLIT %				67.5%		32.5%		**36.5%**	**SPLIT %**				41.0%		59.0%		**63.5%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	1,225	1,192	2,417

AM Peak Hour			07:00	07:30	**07:15**	**PM Peak Hour**			15:45	16:45	**15:45**
AM Pk Volume			169	62	**214**	**PM Pk Volume**			127	132	**254**
Pk Hr Factor			0.768	0.861	**0.754**	**Pk Hr Factor**			0.661	0.733	**0.814**
7 - 9 Volume	0	0	256	94	**350**	**4 - 6 Volume**	0	0	196	252	**448**
7 - 9 Peak Hour			07:00	07:30	**07:15**	**4 - 6 Peak Hour**			16:00	16:45	**16:15**
7 - 9 Pk Volume	0	0	169	62	**214**	**4 - 6 Pk Volume**	0	0	120	132	**245**
Pk Hr Factor	0.000	0.000	0.768	0.861	**0.754**	**Pk Hr Factor**	0.000	0.000	0.625	0.733	**0.785**

Prepared by NDS/ATD

VOLUME

Valley Cir Blvd Bet. Box Canyon Rd & Woolsey Canyon Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_004

DAILY TOTALS	NB	SB	EB	WB	Total
	4,511	4,275	0	0	8,786

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	6		3				9		12:00	43		38				81	
00:15	1		4				5		12:15	43		47				90	
00:30	4		3				7		12:30	49		43				92	
00:45	2	13	1	11			3	24	12:45	45	180	61	189			106	369
01:00	6		0				6		13:00	60		40				100	
01:15	3		1				4		13:15	41		64				105	
01:30	3		2				5		13:30	33		54				87	
01:45	0	12	3	6			3	18	13:45	63	197	63	221			126	418
02:00	0		1				1		14:00	52		48				100	
02:15	0		1				1		14:15	63		65				128	
02:30	2		1				3		14:30	75		55				130	
02:45	2	4	0	3			2	7	14:45	65	255	61	229			126	484
03:00	0		1				1		15:00	88		65				153	
03:15	2		4				6		15:15	117		74				191	
03:30	2		0				2		15:30	126		51				177	
03:45	2	6	2	7			4	13	15:45	122	453	92	282			214	735
04:00	1		2				3		16:00	142		51				193	
04:15	0		3				3		16:15	159		87				246	
04:30	4		1				5		16:30	118		69				187	
04:45	2	7	5	11			7	18	16:45	124	543	62	269			186	812
05:00	7		4				11		17:00	148		64				212	
05:15	11		10				21		17:15	181		69				250	
05:30	5		14				19		17:30	156		66				222	
05:45	10	33	19	47			29	80	17:45	103	588	58	257			161	845
06:00	17		26				43		18:00	109		69				178	
06:15	16		40				56		18:15	114		59				173	
06:30	27		64				91		18:30	64		54				118	
06:45	51	111	118	248			169	359	18:45	63	350	43	225			106	575
07:00	83		153				236		19:00	56		39				95	
07:15	91		189				280		19:15	33		36				69	
07:30	134		164				298		19:30	41		36				77	
07:45	148	456	161	667			309	1123	19:45	30	160	36	147			66	307
08:00	116		161				277		20:00	25		24				49	
08:15	83		171				254		20:15	39		25				64	
08:30	52		113				165		20:30	24		18				42	
08:45	53	304	97	542			150	846	20:45	26	114	16	83			42	197
09:00	45		81				126		21:00	23		25				48	
09:15	38		64				102		21:15	21		15				36	
09:30	54		70				124		21:30	20		22				42	
09:45	70	207	57	272			127	479	21:45	11	75	10	72			21	147
10:00	46		48				94		22:00	15		13				28	
10:15	44		58				102		22:15	14		14				28	
10:30	37		48				85		22:30	10		16				26	
10:45	41	168	48	202			89	370	22:45	10	49	10	53			20	102
11:00	36		45				81		23:00	12		11				23	
11:15	46		55				101		23:15	4		10				14	
11:30	61		37				98		23:30	14		5				19	
11:45	49	192	62	199			111	391	23:45	4	34	7	33			11	67
TOTALS		1513		2215				3728	TOTALS		2998		2060				5058
SPLIT %		40.6%		59.4%				42.4%	SPLIT %		59.3%		40.7%				57.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,511	4,275	0	0	8,786

AM Peak Hour	07:15	07:15				07:15	PM Peak Hour	16:45	15:45				16:45
AM Pk Volume	489	675				1164	PM Pk Volume	609	299				870
Pk Hr Factor	0.826	0.893				0.942	Pk Hr Factor	0.841	0.813				0.870
7 - 9 Volume	760	1209	0	0		1969	4 - 6 Volume	1131	526	0	0		1657
7 - 9 Peak Hour	07:15	07:15				07:15	4 - 6 Peak Hour	16:45	16:15				16:45
7 - 9 Pk Volume	489	675	0	0		1164	4 - 6 Pk Volume	609	282	0	0		870
Pk Hr Factor	0.826	0.893	0.000	0.000		0.942	Pk Hr Factor	0.841	0.810	0.000	0.000		0.870

Prepared by NDS/ATD

VOLUME

Valley Cir Blvd Bet. Plummer St & Schumann Rd

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_005

DAILY TOTALS	NB	SB	EB	WB	Total
	3,328	2,858	0	0	6,186

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	2		6				8		12:00	41		30				71	
00:15	2		7				9		12:15	42		46				88	
00:30	3		6				9		12:30	40		28				68	
00:45	3	10	1	20			4	30	12:45	46	169	29	133			75	302
01:00	2		1				3		13:00	59		39				98	
01:15	1		0				1		13:15	41		47				88	
01:30	4		4				8		13:30	29		31				60	
01:45	0	7	6	11			6	18	13:45	53	182	39	156			92	338
02:00	0		1				1		14:00	33		37				70	
02:15	0		4				4		14:15	59		44				103	
02:30	2		0				2		14:30	61		48				109	
02:45	2	4	0	5			2	9	14:45	53	206	52	181			105	387
03:00	0		0				0		15:00	50		45				95	
03:15	2		2				4		15:15	54		70				124	
03:30	1		1				2		15:30	65		65				130	
03:45	1	4	1	4			2	8	15:45	65	234	65	245			130	479
04:00	2		0				2		16:00	69		53				122	
04:15	5		1				6		16:15	70		54				124	
04:30	5		0				5		16:30	52		56				108	
04:45	8	20	5	6			13	26	16:45	65	256	61	224			126	480
05:00	10		3				13		17:00	78		58				136	
05:15	17		5				22		17:15	62		77				139	
05:30	14		8				22		17:30	60		68				128	
05:45	20	61	4	20			24	81	17:45	62	262	59	262			121	524
06:00	26		9				35		18:00	47		71				118	
06:15	30		16				46		18:15	52		53				105	
06:30	31		31				62		18:30	46		47				93	
06:45	62	149	42	98			104	247	18:45	33	178	32	203			65	381
07:00	62		41				103		19:00	35		41				76	
07:15	85		62				147		19:15	22		39				61	
07:30	136		65				201		19:30	18		33				51	
07:45	116	399	53	221			169	620	19:45	25	100	38	151			63	251
08:00	126		44				170		20:00	23		30				53	
08:15	88		50				138		20:15	25		32				57	
08:30	74		60				134		20:30	10		28				38	
08:45	55	343	53	207			108	550	20:45	12	70	26	116			38	186
09:00	60		39				99		21:00	19		31				50	
09:15	52		34				86		21:15	8		17				25	
09:30	39		31				70		21:30	17		25				42	
09:45	62	213	41	145			103	358	21:45	12	56	16	89			28	145
10:00	50		25				75		22:00	9		17				26	
10:15	42		29				71		22:15	10		18				28	
10:30	49		24				73		22:30	10		16				26	
10:45	32	173	22	100			54	273	22:45	6	35	18	69			24	104
11:00	47		29				76		23:00	10		13				23	
11:15	43		42				85		23:15	4		8				12	
11:30	44		39				83		23:30	6		7				13	
11:45	40	174	43	153			83	327	23:45	3	23	11	39			14	62
TOTALS		1557		990				**2547**	**TOTALS**		1771		1868				**3639**
SPLIT %		61.1%		38.9%				**41.2%**	**SPLIT %**		48.7%		51.3%				**58.8%**

DAILY TOTALS	NB	SB	EB	WB	Total
	3,328	2,858	0	0	6,186

AM Peak Hour	07:30	07:15				**07:15**	**PM Peak Hour**	15:30	17:15				**16:45**
AM Pk Volume	466	224				**687**	**PM Pk Volume**	269	275				**529**
Pk Hr Factor	0.857	0.862				**0.854**	**Pk Hr Factor**	0.961	0.893				**0.951**
7 - 9 Volume	742	428	0	0		**1170**	**4 - 6 Volume**	518	486	0	0		**1004**
7 - 9 Peak Hour	07:30	07:15				**07:15**	**4 - 6 Peak Hour**	16:15	16:45				**16:45**
7 - 9 Pk Volume	466	224	0	0		**687**	**4 - 6 Pk Volume**	265	264	0	0		**529**
Pk Hr Factor	0.857	0.862	0.000	0.000		**0.854**	**Pk Hr Factor**	0.849	0.857	0.000	0.000		**0.951**

Prepared by NDS/ATD

VOLUME

Plummer St W/O Farralone Ave

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_006

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	3,554	3,257	6,811

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			3		5		8		12:00			37		29		66	
00:15			0		10		10		12:15			37		41		78	
00:30			2		5		7		12:30			35		34		69	
00:45			5	10	0	20	5	30	12:45			36	145	20	124	56	269
01:00			1		1		2		13:00			56		47		103	
01:15			1		3		4		13:15			48		48		96	
01:30			4		4		8		13:30			38		35		73	
01:45			0	6	4	12	4	18	13:45			50	192	43	173	93	365
02:00			0		2		2		14:00			31		44		75	
02:15			1		4		5		14:15			42		36		78	
02:30			2		0		2		14:30			39		40		79	
02:45			0	3	1	7	1	10	14:45			38	150	59	179	97	329
03:00			1		0		1		15:00			45		62		107	
03:15			0		3		3		15:15			61		69		130	
03:30			1		0		1		15:30			52		80		132	
03:45			2	4	1	4	3	8	15:45			65	223	89	300	154	523
04:00			4		0		4		16:00			54		95		149	
04:15			4		1		5		16:15			72		86		158	
04:30			5		0		5		16:30			66		105		171	
04:45			8	21	2	3	10	24	16:45			67	259	111	397	178	656
05:00			11		2		13		17:00			83		93		176	
05:15			11		3		14		17:15			65		96		161	
05:30			17		6		23		17:30			58		105		163	
05:45			19	58	5	16	24	74	17:45			73	279	113	407	186	686
06:00			29		9		38		18:00			54		76		130	
06:15			32		18		50		18:15			43		55		98	
06:30			31		25		56		18:30			40		48		88	
06:45			60	152	33	85	93	237	18:45			35	172	48	227	83	399
07:00			114		37		151		19:00			26		51		77	
07:15			127		37		164		19:15			26		43		69	
07:30			133		36		169		19:30			17		34		51	
07:45			146	520	41	151	187	671	19:45			26	95	42	170	68	265
08:00			153		54		207		20:00			19		31		50	
08:15			125		45		170		20:15			24		46		70	
08:30			109		60		169		20:30			10		30		40	
08:45			74	461	42	201	116	662	20:45			17	70	30	137	47	207
09:00			67		51		118		21:00			11		26		37	
09:15			59		34		93		21:15			11		22		33	
09:30			65		51		116		21:30			9		25		34	
09:45			63	254	29	165	92	419	21:45			13	44	25	98	38	142
10:00			51		27		78		22:00			13		18		31	
10:15			56		33		89		22:15			11		19		30	
10:30			45		28		73		22:30			13		17		30	
10:45			50	202	27	115	77	317	22:45			5	42	19	73	24	115
11:00			39		35		74		23:00			14		14		28	
11:15			49		36		85		23:15			3		12		15	
11:30			45		41		86		23:30			4		8		12	
11:45			33	166	39	151	72	317	23:45			5	26	8	42	13	68
TOTALS				1857		930		**2787**	**TOTALS**				1697		2327		**4024**
SPLIT %				66.6%		33.4%		**40.9%**	**SPLIT %**				42.2%		57.8%		**59.1%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	3,554	3,257	6,811

AM Peak Hour			07:15	08:00	**07:30**	**PM Peak Hour**			16:15	17:00	**16:30**
AM Pk Volume			559	201	**733**	**PM Pk Volume**			288	407	**686**
Pk Hr Factor			0.913	0.838	**0.885**	**Pk Hr Factor**			0.867	0.900	**0.963**
7 - 9 Volume	0	0	981	352	**1333**	**4 - 6 Volume**	0	0	538	804	**1342**
7 - 9 Peak Hour			07:15	08:00	**07:30**	**4 - 6 Peak Hour**			16:15	17:00	**16:30**
7 - 9 Pk Volume	0	0	559	201	**733**	**4 - 6 Pk Volume**	0	0	288	407	**686**
Pk Hr Factor	0.000	0.000	0.913	0.838	**0.885**	**Pk Hr Factor**	0.000	0.000	0.867	0.900	**0.963**

Prepared by NDS/ATD

VOLUME

Valley Cir Blvd Bet. Woolsey Canyon Rd & Chatlake Dr

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_007

DAILY TOTALS	NB	SB	EB	WB	Total
	4,823	4,664	0	0	9,487

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	6		4				10		12:00	42		39				81	
00:15	4		4				8		12:15	50		48				98	
00:30	6		2				8		12:30	53		42				95	
00:45	4	20	4	14			8	34	12:45	43	188	56	185			99	373
01:00	3		3				6		13:00	61		45				106	
01:15	5		4				9		13:15	48		54				102	
01:30	2		2				4		13:30	34		62				96	
01:45	0	10	3	12			3	22	13:45	68	211	55	216			123	427
02:00	2		2				4		14:00	71		49				120	
02:15	1		2				3		14:15	68		58				126	
02:30	1		0				1		14:30	75		54				129	
02:45	1	5	0	4			1	9	14:45	70	284	55	216			125	500
03:00	0		1				1		15:00	88		78				166	
03:15	4		3				7		15:15	148		82				230	
03:30	0		0				0		15:30	128		68				196	
03:45	1	5	6	10			7	15	15:45	145	509	78	306			223	815
04:00	1		3				4		16:00	141		79				220	
04:15	0		6				6		16:15	178		93				271	
04:30	3		5				8		16:30	116		93				209	
04:45	2	6	8	22			10	28	16:45	151	586	57	322			208	908
05:00	3		10				13		17:00	160		85				245	
05:15	8		11				19		17:15	211		65				276	
05:30	4		16				20		17:30	157		76				233	
05:45	12	27	27	64			39	91	17:45	133	661	53	279			186	940
06:00	8		33				41		18:00	116		69				185	
06:15	20		53				73		18:15	114		61				175	
06:30	18		77				95		18:30	70		49				119	
06:45	47	93	132	295			179	388	18:45	70	370	43	222			113	592
07:00	54		194				248		19:00	62		43				105	
07:15	106		198				304		19:15	31		34				65	
07:30	112		192				304		19:30	46		39				85	
07:45	160	432	176	760			336	1192	19:45	38	177	34	150			72	327
08:00	110		193				303		20:00	42		25				67	
08:15	93		167				260		20:15	45		28				73	
08:30	53		137				190		20:30	26		19				45	
08:45	50	306	97	594			147	900	20:45	36	149	23	95			59	244
09:00	46		92				138		21:00	30		21				51	
09:15	43		74				117		21:15	27		18				45	
09:30	59		80				139		21:30	33		21				54	
09:45	71	219	65	311			136	530	21:45	20	110	12	72			32	182
10:00	45		42				87		22:00	17		10				27	
10:15	47		63				110		22:15	18		18				36	
10:30	38		48				86		22:30	18		18				36	
10:45	36	166	50	203			86	369	22:45	14	67	17	63			31	130
11:00	38		48				86		23:00	15		19				34	
11:15	45		57				102		23:15	7		16				23	
11:30	55		37				92		23:30	8		13				21	
11:45	50	188	53	195			103	383	23:45	4	34	6	54			10	88
TOTALS		1477		2484				3961	TOTALS		3346		2180				5526
SPLIT %		37.3%		62.7%				41.8%	SPLIT %		60.6%		39.4%				58.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,823	4,664	0	0	9,487

AM Peak Hour	07:15	07:00				07:15	PM Peak Hour	16:45	15:45				16:45
AM Pk Volume	488	760				1247	PM Pk Volume	679	343				962
Pk Hr Factor	0.763	0.960				0.928	Pk Hr Factor	0.805	0.922				0.871
7 - 9 Volume	738	1354	0	0		2092	4 - 6 Volume	1247	601	0	0		1848
7 - 9 Peak Hour	07:15	07:00				07:15	4 - 6 Peak Hour	16:45	16:15				16:45
7 - 9 Pk Volume	488	760	0	0		1247	4 - 6 Pk Volume	679	328	0	0		962
Pk Hr Factor	0.763	0.960	0.000	0.000		0.928	Pk Hr Factor	0.805	0.882	0.000	0.000		0.871

Prepared by NDS/ATD

VOLUME

Roscoe Blvd E/O Woodlake Ave

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_008

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	6,175	6,133	12,308

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			8		16		24		12:00			102		107		209	
00:15			9		12		21		12:15			92		79		171	
00:30			5		12		17		12:30			100		94		194	
00:45			4	26	11	51	15	77	12:45			119	413	91	371	210	784
01:00			5		8		13		13:00			110		92		202	
01:15			4		12		16		13:15			81		75		156	
01:30			3		11		14		13:30			103		88		191	
01:45			4	16	6	37	10	53	13:45			101	395	104	359	205	754
02:00			7		6		13		14:00			95		100		195	
02:15			3		2		5		14:15			109		107		216	
02:30			2		2		4		14:30			97		106		203	
02:45			2	14	5	15	7	29	14:45			83	384	95	408	178	792
03:00			1		5		6		15:00			93		110		203	
03:15			3		4		7		15:15			109		110		219	
03:30			3		4		7		15:30			121		111		232	
03:45			4	11	3	16	7	27	15:45			114	437	123	454	237	891
04:00			5		1		6		16:00			97		121		218	
04:15			6		2		8		16:15			100		124		224	
04:30			6		3		9		16:30			118		138		256	
04:45			11	28	9	15	20	43	16:45			102	417	126	509	228	926
05:00			21		3		24		17:00			108		140		248	
05:15			17		8		25		17:15			103		151		254	
05:30			26		11		37		17:30			108		158		266	
05:45			32	96	20	42	52	138	17:45			97	416	154	603	251	1019
06:00			42		16		58		18:00			82		127		209	
06:15			47		26		73		18:15			84		111		195	
06:30			66		35		101		18:30			86		125		211	
06:45			87	242	47	124	134	366	18:45			75	327	122	485	197	812
07:00			101		47		148		19:00			61		92		153	
07:15			155		60		215		19:15			53		97		150	
07:30			175		66		241		19:30			42		83		125	
07:45			187	618	90	263	277	881	19:45			34	190	64	336	98	526
08:00			180		71		251		20:00			52		74		126	
08:15			148		82		230		20:15			35		70		105	
08:30			100		86		186		20:30			30		50		80	
08:45			115	543	110	349	225	892	20:45			39	156	54	248	93	404
09:00			107		83		190		21:00			31		52		83	
09:15			103		73		176		21:15			35		64		99	
09:30			104		62		166		21:30			23		61		84	
09:45			115	429	78	296	193	725	21:45			29	118	57	234	86	352
10:00			84		92		176		22:00			23		39		62	
10:15			94		79		173		22:15			19		38		57	
10:30			103		73		176		22:30			12		54		66	
10:45			94	375	83	327	177	702	22:45			14	68	34	165	48	233
11:00			95		84		179		23:00			11		28		39	
11:15			113		98		211		23:15			11		22		33	
11:30			100		82		182		23:30			13		17		30	
11:45			105	413	81	345	186	758	23:45			8	43	14	81	22	124
TOTALS				2811		1880		**4691**	**TOTALS**				3364		4253		**7617**
SPLIT %				59.9%		40.1%		**38.1%**	**SPLIT %**				44.2%		55.8%		**61.9%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	6,175	6,133	12,308

AM Peak Hour			07:15	11:15	**07:30**	**PM Peak Hour**			15:15	17:00	**17:00**
AM Pk Volume			697	368	**999**	**PM Pk Volume**			441	603	**1019**
Pk Hr Factor			0.932	0.860	**0.902**	**Pk Hr Factor**			0.911	0.954	**0.958**
7 - 9 Volume	0	0	1161	612	**1773**	**4 - 6 Volume**	0	0	833	1112	**1945**
7 - 9 Peak Hour			07:15	08:00	**07:30**	**4 - 6 Peak Hour**			16:30	17:00	**17:00**
7 - 9 Pk Volume	0	0	697	349	**999**	**4 - 6 Pk Volume**	0	0	431	603	**1019**
Pk Hr Factor	0.000	0.000	0.932	0.793	**0.902**	**Pk Hr Factor**	0.000	0.000	0.913	0.954	**0.958**

Prepared by NDS/ATD

VOLUME

Roscoe Blvd Bet. Shoup Ave & Farralone Ave

Day: Thursday
Date: 12/18/2014

City: Chatsworth
Project #: CA14_5845_009

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	15,485	15,588	31,073

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			31		26		57		12:00			248		193		441	
00:15			18		23		41		12:15			198		222		420	
00:30			32		16		48		12:30			214		229		443	
00:45			21	102	24	89	45	191	12:45			225	885	230	874	455	1759
01:00			14		10		24		13:00			220		220		440	
01:15			17		16		33		13:15			216		304		520	
01:30			11		16		27		13:30			263		261		524	
01:45			12	54	13	55	25	109	13:45			270	969	276	1061	546	2030
02:00			9		14		23		14:00			226		228		454	
02:15			11		11		22		14:15			259		211		470	
02:30			4		16		20		14:30			235		223		458	
02:45			5	29	14	55	19	84	14:45			226	946	270	932	496	1878
03:00			5		9		14		15:00			307		278		585	
03:15			8		14		22		15:15			306		277		583	
03:30			18		10		28		15:30			352		286		638	
03:45			13	44	11	44	24	88	15:45			294	1259	311	1152	605	2411
04:00			11		15		26		16:00			357		319		676	
04:15			17		11		28		16:15			299		285		584	
04:30			23		26		49		16:30			289		305		594	
04:45			24	75	47	99	71	174	16:45			337	1282	284	1193	621	2475
05:00			44		28		72		17:00			317		319		636	
05:15			46		50		96		17:15			352		309		661	
05:30			63		70		133		17:30			340		330		670	
05:45			73	226	97	245	170	471	17:45			362	1371	278	1236	640	2607
06:00			104		98		202		18:00			271		308		579	
06:15			121		124		245		18:15			236		245		481	
06:30			161		194		355		18:30			244		272		516	
06:45			190	576	241	657	431	1233	18:45			207	958	243	1068	450	2026
07:00			185		192		377		19:00			217		241		458	
07:15			225		195		420		19:15			178		214		392	
07:30			283		255		538		19:30			165		168		333	
07:45			260	953	258	900	518	1853	19:45			128	688	176	799	304	1487
08:00			255		272		527		20:00			138		151		289	
08:15			249		269		518		20:15			118		114		232	
08:30			223		276		499		20:30			120		143		263	
08:45			269	996	313	1130	582	2126	20:45			126	502	128	536	254	1038
09:00			219		238		457		21:00			121		126		247	
09:15			226		230		456		21:15			113		115		228	
09:30			242		225		467		21:30			88		111		199	
09:45			302	989	220	913	522	1902	21:45			95	417	115	467	210	884
10:00			227		174		401		22:00			97		87		184	
10:15			214		197		411		22:15			83		82		165	
10:30			187		181		368		22:30			61		62		123	
10:45			207	835	216	768	423	1603	22:45			60	301	61	292	121	593
11:00			225		181		406		23:00			47		57		104	
11:15			217		219		436		23:15			39		52		91	
11:30			217		188		405		23:30			40		36		76	
11:45			215	874	246	834	461	1708	23:45			28	154	44	189	72	343
TOTALS				5753		5789		**11542**	**TOTALS**				9732		9799		**19531**
SPLIT %				49.8%		50.2%		**37.1%**	**SPLIT %**				49.8%		50.2%		**62.9%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	15,485	15,588	31,073

AM Peak Hour			07:30	08:00	**08:00**	**PM Peak Hour**			17:00	16:45	**17:00**
AM Pk Volume			1047	1130	**2126**	**PM Pk Volume**			1371	1242	**2607**
Pk Hr Factor			0.925	0.903	**0.913**	**Pk Hr Factor**			0.947	0.941	**0.973**
7 - 9 Volume	0	0	1949	2030	**3979**	**4 - 6 Volume**	0	0	2653	2429	**5082**
7 - 9 Peak Hour			07:30	08:00	**08:00**	**4 - 6 Peak Hour**			17:00	16:45	**17:00**
7 - 9 Pk Volume	0	0	1047	1130	**2126**	**4 - 6 Pk Volume**	0	0	1371	1242	**2607**
Pk Hr Factor	0.000	0.000	0.925	0.903	**0.913**	**Pk Hr Factor**	0.000	0.000	0.947	0.941	**0.973**

Prepared by NDS/ATD

VOLUME

Valley Circle Blvd Bet. Vanowen St & Victory Blvd

Day: Tuesday
Date: 4/28/2015

City: Calabasas
Project #: CA15_5250_001

DAILY TOTALS	NB	SB	EB	WB	Total
	10,735	10,275	0	0	21,010

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	13		12				25		12:00	109		92				201	
00:15	18		5				23		12:15	112		120				232	
00:30	4		7				11		12:30	113		97				210	
00:45	7	42	7	31			14	73	12:45	140	474	136	445			276	919
01:00	6		3				9		13:00	123		145				268	
01:15	4		3				7		13:15	134		126				260	
01:30	3		3				6		13:30	171		150				321	
01:45	2	15	3	12			5	27	13:45	186	614	129	550			315	1164
02:00	2		0				2		14:00	136		135				271	
02:15	5		1				6		14:15	176		130				306	
02:30	0		1				1		14:30	171		150				321	
02:45	2	9	2	4			4	13	14:45	206	689	148	563			354	1252
03:00	3		3				6		15:00	181		167				348	
03:15	5		5				10		15:15	262		182				444	
03:30	1		5				6		15:30	361		164				525	
03:45	0	9	7	20			7	29	15:45	267	1071	174	687			441	1758
04:00	1		7				8		16:00	259		141				400	
04:15	1		8				9		16:15	287		152				439	
04:30	1		13				14		16:30	254		145				399	
04:45	0	3	12	40			12	43	16:45	292	1092	132	570			424	1662
05:00	4		17				21		17:00	250		155				405	
05:15	3		37				40		17:15	328		164				492	
05:30	6		56				62		17:30	306		133				439	
05:45	2	15	73	183			75	198	17:45	273	1157	143	595			416	1752
06:00	13		95				108		18:00	272		149				421	
06:15	9		123				132		18:15	266		131				397	
06:30	17		183				200		18:30	240		165				405	
06:45	29	68	231	632			260	700	18:45	252	1030	175	620			427	1650
07:00	77		232				309		19:00	219		120				339	
07:15	99		365				464		19:15	225		127				352	
07:30	229		437				666		19:30	156		123				279	
07:45	265	670	360	1394			625	2064	19:45	137	737	138	508			275	1245
08:00	177		247				424		20:00	134		91				225	
08:15	129		309				438		20:15	147		73				220	
08:30	94		262				356		20:30	128		61				189	
08:45	120	520	254	1072			374	1592	20:45	132	541	55	280			187	821
09:00	131		195				326		21:00	107		47				154	
09:15	114		194				308		21:15	84		54				138	
09:30	95		153				248		21:30	79		55				134	
09:45	109	449	146	688			255	1137	21:45	75	345	38	194			113	539
10:00	83		128				211		22:00	83		29				112	
10:15	100		133				233		22:15	66		31				97	
10:30	94		135				229		22:30	48		22				70	
10:45	92	369	128	524			220	893	22:45	59	256	16	98			75	354
11:00	114		110				224		23:00	39		22				61	
11:15	105		106				211		23:15	31		17				48	
11:30	123		131				254		23:30	34		13				47	
11:45	87	429	149	496			236	925	23:45	27	131	17	69			44	200
TOTALS		2598		5096				**7694**	**TOTALS**		8137		5179				**13316**
SPLIT %		33.8%		66.2%				**36.6%**	**SPLIT %**		61.1%		38.9%				**63.4%**

DAILY TOTALS	NB	SB	EB	WB	Total
	10,735	10,275	0	0	21,010

AM Peak Hour	07:30	07:15				**07:15**	**PM Peak Hour**	17:15	15:00				**15:15**
AM Pk Volume	800	1409				**2179**	**PM Pk Volume**	1179	687				**1810**
Pk Hr Factor	0.755	0.806				**0.818**	**Pk Hr Factor**	0.899	0.944				**0.862**
7 - 9 Volume	1190	2466	0	0		**3656**	**4 - 6 Volume**	2249	1165	0	0		**3414**
7 - 9 Peak Hour	07:30	07:15				**07:15**	**4 - 6 Peak Hour**	16:45	16:30				**16:45**
7 - 9 Pk Volume	800	1409	0	0		**2179**	**4 - 6 Pk Volume**	1176	596	0	0		**1760**
Pk Hr Factor	0.755	0.806	0.000	0.000		**0.818**	**Pk Hr Factor**	0.896	0.909	0.000	0.000		**0.894**

Prepared by NDS/ATD

VOLUME

Valley Circle Blvd Bet. Burbank Blvd & US-101

Day: Tuesday
Date: 4/28/2015

City: Calabasas
Project #: CA15_5250_002

DAILY TOTALS	NB	SB	EB	WB	Total
	18,140	16,891	0	0	35,031

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TOTAL	
00:00	42		16				58		12:00	201		201				402	
00:15	32		12				44		12:15	224		197				421	
00:30	19		13				32		12:30	235		261				496	
00:45	24	117	10	51			34	168	12:45	237	897	223	882			460	1779
01:00	20		3				23		13:00	229		235				464	
01:15	15		5				20		13:15	264		242				506	
01:30	14		7				21		13:30	276		246				522	
01:45	11	60	2	17			13	77	13:45	266	1035	280	1003			546	2038
02:00	14		0				14		14:00	228		227				455	
02:15	8		3				11		14:15	297		245				542	
02:30	5		1				6		14:30	277		253				530	
02:45	5	32	4	8			9	40	14:45	310	1112	278	1003			588	2115
03:00	8		4				12		15:00	364		227				591	
03:15	10		10				20		15:15	412		344				756	
03:30	6		8				14		15:30	387		308				695	
03:45	4	28	11	33			15	61	15:45	429	1592	251	1130			680	2722
04:00	2		8				10		16:00	384		226				610	
04:15	2		22				24		16:15	408		269				677	
04:30	9		26				35		16:30	396		227				623	
04:45	5	18	35	91			40	109	16:45	416	1604	250	972			666	2576
05:00	15		38				53		17:00	419		239				658	
05:15	16		77				93		17:15	464		251				715	
05:30	22		109				131		17:30	496		239				735	
05:45	26	79	159	383			185	462	17:45	489	1868	220	949			709	2817
06:00	45		182				227		18:00	466		217				683	
06:15	44		223				267		18:15	442		221				663	
06:30	106		298				404		18:30	398		222				620	
06:45	199	394	353	1056			552	1450	18:45	428	1734	206	866			634	2600
07:00	189		351				540		19:00	360		179				539	
07:15	259		474				733		19:15	348		174				522	
07:30	386		480				866		19:30	288		185				473	
07:45	326	1160	468	1773			794	2933	19:45	261	1257	169	707			430	1964
08:00	241		460				701		20:00	267		142				409	
08:15	153		447				600		20:15	215		114				329	
08:30	163		401				564		20:30	201		106				307	
08:45	188	745	383	1691			571	2436	20:45	211	894	98	460			309	1354
09:00	189		336				525		21:00	170		88				258	
09:15	146		344				490		21:15	171		84				255	
09:30	153		317				470		21:30	149		81				230	
09:45	171	659	282	1279			453	1938	21:45	146	636	81	334			227	970
10:00	176		258				434		22:00	155		62				217	
10:15	178		245				423		22:15	129		42				171	
10:30	171		247				418		22:30	120		43				163	
10:45	167	692	271	1021			438	1713	22:45	96	500	44	191			140	691
11:00	169		219				388		23:00	79		28				107	
11:15	194		227				421		23:15	55		33				88	
11:30	221		228				449		23:30	53		18				71	
11:45	196	780	213	887			409	1667	23:45	60	247	25	104			85	351
TOTALS		4764		8290				13054	TOTALS		13376		8601				21977
SPLIT %		36.5%		63.5%				37.3%	SPLIT %		60.9%		39.1%				62.7%

DAILY TOTALS	NB	SB	EB	WB	Total
	18,140	16,891	0	0	35,031

AM Peak Hour	07:15	07:15					07:15		PM Peak Hour	17:15	14:45					17:15		
AM Pk Volume	1212	1882					3094		PM Pk Volume	1915	1157					2842		
Pk Hr Factor	0.785	0.980					0.893		Pk Hr Factor	0.965	0.841					0.967		
7 - 9 Volume	1905	3464	0	0			5369		4 - 6 Volume	3472	1921	0	0			5393		
7 - 9 Peak Hour	07:15	07:15					07:15		4 - 6 Peak Hour	17:00	16:15					17:00		
7 - 9 Pk Volume	1212	1882	0	0			3094		4 - 6 Pk Volume	1868	985	0	0			2817		
Pk Hr Factor	0.785	0.980	0.000	0.000			0.893		Pk Hr Factor	0.942	0.915	0.000	0.000			0.958		

APPENDIX C
Intersection Level-of-Service Worksheets
CMA Methodology – All Scenarios

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
2	East-West Street:	ST-118 EB Ramps	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				3				3				3				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2				2				2				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2			2
Override Capacity				0				0				0				0			0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0
	Left-Through		0	
	Through	482	1	482
	Through-Right		1	
	Right	1069	0	**1069**
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	117	1	**117**
	Left-Through		0	
	Through	1451	2	726
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	8	0	8
	Left-Through		1	
	Through	9	0	17
	Through-Right		0	
	Right	917	2	**504**
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	0	0	0
	Left-Through		0	
	Through	0	0	**0**
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES	*North-South:*			1186
	East-West:			504
	SUM:			1690
VOLUME/CAPACITY *(V/C)* RATIO:				1.186
V/C LESS ATSAC/ATCS ADJUSTMENT:				1.086
LEVEL OF SERVICE (LOS):				F

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.020

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.020

Significant impacted? YES

Δv/c after mitigation: 0.020

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
2	East-West Street:	ST-118 EB Ramps	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				3				3				3				3			3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2				2				2				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2			2
Override Capacity				0				0				0				0			0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0
	Left-Through		0	
	Through	1018	1	1018
	Through-Right		1	
	Right	1225	0	**1225**
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	60	1	**60**
	Left-Through		0	
	Through	1095	2	548
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	18	0	18
	Left-Through		1	
	Through	1	0	19
	Through-Right		0	
	Right	658	2	**362**
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	0	0	0
	Left-Through		0	
	Through	0	0	**0**
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES	*North-South:*			1285
	East-West:			362
	SUM:			1647
VOLUME/CAPACITY *(V/C)* RATIO:				1.156
V/C LESS ATSAC/ATCS ADJUSTMENT:				1.056
LEVEL OF SERVICE (LOS):				F

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.032

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.032

Significant impacted? YES

$\Delta v/c$ after mitigation: 0.032

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
5	East-West Street:	Plummer Street	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2			2			2			2			2	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	39	1	**39**
	Left-Through		0	
	Through	1328	2	463
	Through-Right		1	
	Right	60	0	60
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	73	1	73
	Left-Through		0	
	Through	1886	2	**666**
	Through-Right		1	
	Right	112	0	112
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	275	1	151
	Left-Through		1	
	Through	136	0	**366**
	Through-Right		1	
	Right	230	0	230
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	28	1	**28**
	Left-Through		0	
	Through	24	1	24
	Through-Right		1	
	Right	31	0	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		705
		East-West:		394
		SUM:		1099
VOLUME/CAPACITY (*V/C*) RATIO:				0.799
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.699
LEVEL OF SERVICE (LOS):				B

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.016

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.014

Significant impacted? YES

Δv/c after mitigation: 0.014

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
5	East-West Street:	Plummer Street	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Marymount (San Pedro Campus)

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2			2			2			2			2	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	109	1	**109**
	Left-Through		0	
	Through	1606	2	560
	Through-Right		1	
	Right	73	0	73
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	22	1	22
	Left-Through		0	
	Through	1680	2	**619**
	Through-Right		1	
	Right	178	0	178
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	134	1	74
	Left-Through		1	
	Through	51	0	**165**
	Through-Right		1	
	Right	114	0	114
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	43	1	43
	Left-Through		0	
	Through	133	1	**112**
	Through-Right		1	
	Right	90	0	90
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		728
		East-West:		277
		SUM:		1005
VOLUME/CAPACITY (V/C) RATIO:				0.731
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.631
LEVEL OF SERVICE (LOS):				B

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.009

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.009

Significant impacted? NO

Δv/c after mitigation: 0.009

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
7	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				3				3				3				3				3			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1				1				1				1				1			
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	
	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2			
Override Capacity				0				0				0				0				0			

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	3	1	3
	Left-Through		0	
	Through	372	1	372
	Through-Right		0	
	Right	252	1	113
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	371	1	371
	Left-Through		0	
	Through	484	0	486
	Through-Right		1	
	Right	2	0	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	3	1	3
	Left-Through		0	
	Through	3	0	4
	Through-Right		1	
	Right	1	0	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	279	1	279
	Left-Through		0	
	Through	1	1	1
	Through-Right		0	
	Right	107	1	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		858
		East-West:		283
		SUM:		1141
VOLUME/CAPACITY (V/C) RATIO:				0.801
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.701
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.036

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.036 | Δv/c after mitigation: 0.036

Significant impacted? YES | Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
7	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				3				3				3				3				3			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1				1				1				1				1			
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0			
	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0			
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2			
Override Capacity				0				0				0				0				0			

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	5	1	5
	Left-Through		0	
	Through	458	1	**458**
	Through-Right		0	
	Right	256	1	163
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	121	1	121
	Left-Through		0	
	Through	187	0	**190**
	Through-Right		1	
	Right	3	0	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	1	1	**1**
	Left-Through		0	
	Through	1	0	5
	Through-Right		1	
	Right	4	0	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	187	1	187
	Left-Through		0	
	Through	2	1	2
	Through-Right		0	
	Right	282	1	**222**
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES	*North-South:*			648
	East-West:			223
	SUM:			871
VOLUME/CAPACITY *(V/C)* RATIO:				0.611
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.511
LEVEL OF SERVICE (LOS):				A

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.035

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.035

Significant impacted? NO

Δv/c after mitigation: 0.035

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
8	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	80	1	**80**
	Left-Through		0	
	Through	699	2	266
	Through-Right		1	
	Right	99	0	99
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	68	1	68
	Left-Through		0	
	Through	1324	3	**441**
	Through-Right		0	
	Right	561	1	427
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	487	2	**268**
	Left-Through		0	
	Through	470	2	235
	Through-Right		0	
	Right	36	1	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	170	2	94
	Left-Through		0	
	Through	472	2	**236**
	Through-Right		0	
	Right	53	1	19
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		521
		East-West:		504
		SUM:		1025
VOLUME/CAPACITY (*V/C*) RATIO:				0.745
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.645
LEVEL OF SERVICE (LOS):				B

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.027

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.027 $\Delta v/c$ after mitigation: 0.027

Significant impacted? YES Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
8	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2
Override Capacity				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	112	1	112
	Left-Through		0	
	Through	1203	2	**477**
	Through-Right		1	
	Right	229	0	229
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	116	1	**116**
	Left-Through		0	
	Through	1288	3	429
	Through-Right		0	
	Right	597	1	451
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	533	2	**293**
	Left-Through		0	
	Through	785	2	393
	Through-Right		0	
	Right	78	1	22
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	251	2	138
	Left-Through		0	
	Through	551	2	**276**
	Through-Right		0	
	Right	91	1	33
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		593
		East-West:		569
		SUM:		1162
VOLUME/CAPACITY (V/C) RATIO:				0.845
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.745
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.007

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.008

Significant impacted? NO

Δv/c after mitigation: 0.008

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
9	East-West Street:	Sherman Way	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	3
	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2			2
Override Capacity				0				0				0				0			0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	111	1	**111**
	Left-Through		0	
	Through	1081	2	400
	Through-Right		1	
	Right	120	0	120
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	104	1	104
	Left-Through		0	
	Through	1690	2	**607**
	Through-Right		1	
	Right	131	0	131
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	231	2	**127**
	Left-Through		0	
	Through	577	2	289
	Through-Right		0	
	Right	152	1	41
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	236	2	130
	Left-Through		0	
	Through	649	1	**365**
	Through-Right		1	
	Right	80	0	80
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		718
		East-West:		492
		SUM:		1210
VOLUME/CAPACITY (V/C) RATIO:				0.880
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.780
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.003

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.003

Significant impacted? NO

Δv/c after mitigation: 0.003

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
9	East-West Street:	Sherman Way	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	3
	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2			2
Override Capacity				0				0				0				0			0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	144	1	144
	Left-Through		0	
	Through	1433	2	**539**
	Through-Right		1	
	Right	183	0	183
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	137	1	**137**
	Left-Through		0	
	Through	1301	2	494
	Through-Right		1	
	Right	181	0	181
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	274	2	**151**
	Left-Through		0	
	Through	619	2	310
	Through-Right		0	
	Right	171	1	27
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	219	2	120
	Left-Through		0	
	Through	572	1	**350**
	Through-Right		1	
	Right	127	0	127
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		676
		East-West:		501
		SUM:		1177
VOLUME/CAPACITY (V/C) RATIO:				0.856
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.756
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.005

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.005

Significant impacted? NO

Δv/c after mitigation: 0.005

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
10	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	27	1	**27**
	Left-Through		0	
	Through	695	2	311
	Through-Right		1	
	Right	239	0	239
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	204	1	204
	Left-Through		0	
	Through	1280	2	**640**
	Through-Right		0	
	Right	34	1	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	93	1	93
	Left-Through		0	
	Through	196	1	**129**
	Through-Right		1	
	Right	62	0	62
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	270	1	**270**
	Left-Through		0	
	Through	50	1	50
	Through-Right		1	
	Right	113	0	11
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		667
		East-West:		399
		SUM:		1066
VOLUME/CAPACITY (*V/C*) RATIO:				0.775
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.675
LEVEL OF SERVICE (LOS):				B

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.002

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.003

Significant impacted? NO

Δv/c after mitigation: 0.003

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
10	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4				4			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0				0			
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0			
	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0	EB--	0	WB--	0			
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2			
Override Capacity				0				0				0				0				0			

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	33	1	33
	Left-Through		0	
	Through	994	2	**405**
	Through-Right		1	
	Right	221	0	221
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	145	1	**145**
	Left-Through		0	
	Through	519	2	260
	Through-Right		0	
	Right	27	1	6
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	42	1	42
	Left-Through		0	
	Through	107	1	**64**
	Through-Right		1	
	Right	20	0	20
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	203	1	**203**
	Left-Through		0	
	Through	89	1	89
	Through-Right		1	
	Right	153	0	81
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		550
		East-West:		267
		SUM:		817
VOLUME/CAPACITY (V/C) RATIO:				0.594
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.494
LEVEL OF SERVICE (LOS):				A

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.002

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.002

Significant impacted? NO

Δv/c after mitigation: 0.002

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
11	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	EB--	0	WB-- 3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	106	1	106
	Left-Through		0	
	Through	885	1	**506**
	Through-Right		1	
	Right	126	0	126
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	167	1	**167**
	Left-Through		0	
	Through	1538	2	552
	Through-Right		1	
	Right	118	0	118
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	116	2	64
	Left-Through		0	
	Through	740	2	**370**
	Through-Right		0	
	Right	161	1	108
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	225	2	**124**
	Left-Through		0	
	Through	610	2	305
	Through-Right		0	
	Right	142	1	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		673
		East-West:		494
		SUM:		1167
VOLUME/CAPACITY (*V/C*) RATIO:				0.849
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.749
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.006

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.006

Significant impacted? NO

Δv/c after mitigation: 0.006

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
11	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4				4				4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0				0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2				2
Override Capacity				0				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	107	1	107
	Left-Through		0	
	Through	1061	1	**625**
	Through-Right		1	
	Right	189	0	189
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	236	1	**236**
	Left-Through		0	
	Through	1360	2	511
	Through-Right		1	
	Right	173	0	173
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	222	2	122
	Left-Through		0	
	Through	943	2	**472**
	Through-Right		0	
	Right	191	1	138
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	304	2	**167**
	Left-Through		0	
	Through	977	2	489
	Through-Right		0	
	Right	370	1	134
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		861
		East-West:		639
		SUM:		1500
VOLUME/CAPACITY *(V/C)* RATIO:				1.091
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.991
LEVEL OF SERVICE (LOS):				E

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.001

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
12	East-West Street:	Burbank Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases			2			2			2			2			2			2	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2
Override Capacity				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	243	1	**243**
	Left-Through		0	
	Through	1695	3	565
	Through-Right		0	
	Right	537	1	464
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	111	1	111
	Left-Through		0	
	Through	1238	3	413
	Through-Right		0	
	Right	544	1	**529**
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	31	1	31
	Left-Through		0	
	Through	380	2	**190**
	Through-Right		0	
	Right	228	1	107
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	146	1	**146**
	Left-Through		0	
	Through	493	2	247
	Through-Right		0	
	Right	55	1	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		772
		East-West:		336
		SUM:		1108
VOLUME/CAPACITY (*V/C*) RATIO:				0.739
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.639
LEVEL OF SERVICE (LOS):				B

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
12	East-West Street:	Burbank Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				2				2				2				2				2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0				0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2				2
Override Capacity				0				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	354	1	**354**
	Left-Through		0	
	Through	2152	3	717
	Through-Right		0	
	Right	484	1	338
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	65	1	65
	Left-Through		0	
	Through	1347	3	449
	Through-Right		0	
	Right	613	1	**597**
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	33	1	**33**
	Left-Through		0	
	Through	286	2	143
	Through-Right		0	
	Right	212	1	35
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	292	1	292
	Left-Through		0	
	Through	973	2	**487**
	Through-Right		0	
	Right	64	1	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		951
		East-West:		520
		SUM:		1471
VOLUME/CAPACITY (V/C) RATIO:				0.981
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.881
LEVEL OF SERVICE (LOS):				D

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
14	East-West Street:	US-101 NB Off Ramp	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2				2				2				2			2
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3
	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2			2
Override Capacity				0				0				0				0			0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	427	1	**427**
	Left-Through		0	
	Through	837	2	419
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	0	1	0
	Left-Through		0	
	Through	1422	2	711
	Through-Right		0	
	Right	832	1	**815**
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	17	1	**17**
	Left-Through		0	
	Through	0	0	0
	Through-Right		0	
	Right	89	1	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	429	1	**236**
	Left-Through		1	
	Through	47	0	210
	Through-Right		1	
	Right	372	1	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		1242
		East-West:		253
		SUM:		1495
VOLUME/CAPACITY (V/C) RATIO:				1.087
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.987
LEVEL OF SERVICE (LOS):				E

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
14	East-West Street:	US-101 NB Off Ramp	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4				4			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				2				2				2				2				2			
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	
	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2			
Override Capacity				0				0				0				0				0			

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	258	1	258
	Left-Through		0	
	Through	1691	2	**846**
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	0	1	**0**
	Left-Through		0	
	Through	790	2	395
	Through-Right		0	
	Right	432	1	399
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	33	1	**33**
	Left-Through		0	
	Through	0	0	0
	Through-Right		0	
	Right	51	1	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	516	1	284
	Left-Through		1	
	Through	33	0	**298**
	Through-Right		1	
	Right	563	1	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		846
		East-West:		331
		SUM:		1177
VOLUME/CAPACITY (V/C) RATIO:				0.856
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.756
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.002

Significant impacted? NO

PROJECT IMPACT

Change in v/c due to project: 0.002

Significant impacted? NO

Δv/c after mitigation: 0.002

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
15	East-West Street:	Calabasas Road/Avenue San Luis	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				4				4				4				4				4			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0				0			
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0			
	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3			
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2			
Override Capacity				0				0				0				0				0			

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	102	1	102
	Left-Through		0	
	Through	1061	2	**531**
	Through-Right		0	
	Right	65	1	0
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	84	1	**84**
	Left-Through		0	
	Through	799	2	400
	Through-Right		0	
	Right	1013	2	435
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	445	2	**245**
	Left-Through		0	
	Through	125	2	63
	Through-Right		0	
	Right	405	1	303
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	101	1	101
	Left-Through		0	
	Through	255	1	**255**
	Through-Right		0	
	Right	264	1	180
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		615
		East-West:		500
		SUM:		1115
VOLUME/CAPACITY (V/C) RATIO:				0.811
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.711
LEVEL OF SERVICE (LOS):				C

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.010

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.010

Significant impacted? YES

Δv/c after mitigation: 0.010

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
15	East-West Street:	Calabasas Road/Avenue San Luis	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Marymount (San Pedro Campus)

No. of Phases				4				4				4				4				4			
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				0				0				0				0				0			
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0
	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2
Override Capacity				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	116	1	116
	Left-Through		0	
	Through	1018	2	**509**
	Through-Right		0	
	Right	85	1	2
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	96	1	**96**
	Left-Through		0	
	Through	687	2	344
	Through-Right		0	
	Right	732	2	136
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	970	2	**534**
	Left-Through		0	
	Through	342	2	171
	Through-Right		0	
	Right	329	1	213
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	83	1	83
	Left-Through		0	
	Through	136	1	**136**
	Through-Right		0	
	Right	217	1	121
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		605
		East-West:		670
		SUM:		1275
VOLUME/CAPACITY (*V/C*) RATIO:				0.927
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.827
LEVEL OF SERVICE (LOS):				D

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	US-101 SB Ramps	Year of Count:	2015	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
16	East-West Street:	Calabasas Road	Projection Year:	2032	Peak Hour:	AM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				3				3				3				3				3				3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1				1				1				1				1				1
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3				
	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3				
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2				2
Override Capacity				0				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0
	Left-Through		0	
	Through	0	0	**0**
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	572	2	**315**
	Left-Through		0	
	Through	0	0	0
	Through-Right		0	
	Right	36	1	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	128	2	**70**
	Left-Through		0	
	Through	396	2	198
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	0	0	0
	Left-Through		0	
	Through	1123	2	**562**
	Through-Right		0	
	Right	355	2	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES	*North-South:*			315
	East-West:			632
	SUM:			947
VOLUME/CAPACITY *(V/C)* RATIO:				0.665
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.565
LEVEL OF SERVICE (LOS):				A

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.009

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.010

Significant impacted? NO

Δv/c after mitigation: 0.010

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	US-101 SB Ramps	Year of Count:	2015	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/14/2017
16	East-West Street:	Calabasas Road	Projection Year:	2032	Peak Hour:	PM	Reviewed by:	sting 2015 Conditi	Project:	Simi Valley Santa Susana Site EIR

No. of Phases				3				3				3				3				3				3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				1				1				1				1				1				1
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3	NB--	0	SB--	3
	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3	EB--	0	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2				2
Override Capacity				0				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	0	0	0
	Left-Through		0	
	Through	0	0	**0**
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
SOUTHBOUND	Left	713	2	**392**
	Left-Through		0	
	Through	0	0	0
	Through-Right		0	
	Right	19	1	0
	Left-Through-Right		0	
	Left-Right		0	
EASTBOUND	Left	199	2	109
	Left-Through		0	
	Through	1147	2	**574**
	Through-Right		0	
	Right	0	0	0
	Left-Through-Right		0	
	Left-Right		0	
WESTBOUND	Left	0	0	**0**
	Left-Through		0	
	Through	640	2	320
	Through-Right		0	
	Right	221	2	0
	Left-Through-Right		0	
	Left-Right		0	
CRITICAL VOLUMES		*North-South:*		392
		East-West:		574
		SUM:		966
VOLUME/CAPACITY (V/C) RATIO:				0.678
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.578
LEVEL OF SERVICE (LOS):				A

REMARKS: *Scenario: Existing 2015 Conditions*

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Year of Count:	Ambient Growth (%):	Conducted by:	Date:
2	Topanga Canyon Boulevard	2018	1.01	KOA Corp	3/6/2017
	East-West Street:	Projection Year:	Peak Hour:	Reviewed by:	Project: Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
No. of Phases		3			3			3				3				3		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		2			2			2				2				2		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--	0		NB-- 0 SB-- EB-- 0 WB--	0		NB-- 0 SB-- EB-- 0 WB--	0			NB-- 0 SB-- EB-- 0 WB--	0			NB-- 0 SB-- EB-- 0 WB--	0		
ATSAC-1 or ATSAC+ATCS-2?		2			2			2				2				2		
Override Capacity		0			0			0				0				0		
NORTHBOUND																		
Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through		0							0				0				0	
Through	496	1	496	0	496	496	0	571	1	571	0	571	1	571	0	571	1	571
Through-Right		1							1				1				1	
Right	1101	0	**1101**	21	1122	**1122**	0	1267	0	**1267**	21	1288	0	**1288**	0	1288	0	**1288**
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	121	1	**121**	0	121	**121**	0	139	1	**139**	0	139	1	**139**	0	139	1	**139**
Left-Through		0							0				0				0	
Through	1495	2	748	46	1541	771	0	1720	2	860	46	1766	2	883	0	1766	2	883
Through-Right		0							0				0				0	
Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	8	0	8	0	8	8	0	9	0	9	0	9	0	9	0	9	0	9
Left-Through		1							1				1				1	
Through	9	0	17	0	9	17	0	11	0	20	0	11	0	20	0	11	0	20
Through-Right		0							0				0				0	
Right	945	2	**520**	12	957	**526**	0	1087	2	**598**	12	1099	2	**604**	0	1099	2	**604**
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through		0							0				0				0	
Through	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
Through-Right		0							0				0				0	
Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	North-South:		1222	North-South:		1243	North-South:			1406	North-South:			1427	North-South:			1427
	East-West:		520	East-West:		526	East-West:			598	East-West:			604	East-West:			604
	SUM:		1742	SUM:		1769	SUM:			2004	SUM:			2031	SUM:			2031
VOLUME/CAPACITY (V/C) RATIO:			1.222			1.241				1.406				1.425				1.425
V/C LESS ATSAC/ATCS ADJUSTMENT:			1.122			1.141				1.306				1.325				1.325
LEVEL OF SERVICE (LOS):			F			F				F				F				F

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.019

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.019

Significant impacted? YES

Δ*v/c* after mitigation: 0.019

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Year of Count:	Ambient Growth (%):	Conducted by:	Date:
2	Topanga Canyon Boulevard	2018	1.01	KOA Corp	3/6/2017
	East-West Street:	Projection Year:	Peak Hour:	Reviewed by:	Project: Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through		0							0				0				0	
Through	1049	1	1049	12	1061	1061	0	1207	1	1207	12	1219	1	1219	0	1219	1	1219
Through-Right		1							1				1				1	
Right	1262	0	**1262**	46	1308	**1308**	0	1452	0	**1452**	46	1498	0	**1498**	0	1498	0	**1498**
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	62	1	**62**	0	62	**62**	0	71	1	**71**	0	71	1	**71**	0	71	1	**71**
Left-Through		0							0				0				0	
Through	1128	2	564	21	1149	575	0	1298	2	649	21	1319	2	660	0	1319	2	660
Through-Right		0							0				0				0	
Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	19	0	19	0	19	19	0	21	0	21	0	21	0	21	0	21	0	21
Left-Through		1							1				1				1	
Through	1	0	20	0	1	20	0	1	0	22	0	1	0	22	0	1	0	22
Through-Right		0							0				0				0	
Right	678	2	**373**	0	678	**373**	0	780	2	**429**	0	780	2	**429**	0	780	2	**429**
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through		0							0				0				0	
Through	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
Through-Right		0							0				0				0	
Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		1324	*North-South:*		1370	*North-South:*			1523	*North-South:*			1569	*North-South:*			1569
	East-West:		373	*East-West:*		373	*East-West:*			429	*East-West:*			429	*East-West:*			429
	SUM:		1697	*SUM:*		1743	*SUM:*			1952	*SUM:*			1998	*SUM:*			1998
VOLUME/CAPACITY *(V/C)* RATIO:			1.191			1.223				1.370				1.402				1.402
V/C LESS ATSAC/ATCS ADJUSTMENT:			1.091			1.123				1.270				1.302				1.302
LEVEL OF SERVICE (LOS):			F			F				F				F				F

	NB--	SB--	EB--	WB--
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0

No. of Phases	3
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	2
ATSAC-1 or ATSAC+ATCS-2?	2
Override Capacity	0

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.032

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.032

Significant impacted? YES

Δ*v/c* after mitigation: 0.032

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
5	East-West Street:	Plummer Street	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4					4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2			2				2					2
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0	NB-- SB-- EB-- WB--		0		NB-- 0 SB-- EB-- 0 WB--		0		NB-- 0 SB-- EB-- 0 WB--		0
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	40	1	**40**	0	40	**40**	0	46	1	**46**	0	46	1	**46**	0	46	1	**46**
	Left-Through		0							0				0				0	
	Through	1368	2	477	18	1386	483	0	1574	2	548	18	1592	2	554	0	1592	2	554
	Through-Right		1							1				1				1	
	Right	62	0	62	0	62	62	0	71	0	71	0	71	0	71	0	71	0	71
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	75	1	75	0	75	75	0	87	1	87	0	87	1	87	0	87	1	87
	Left-Through		0							0				0				0	
	Through	1943	2	**686**	18	1961	**705**	0	2236	2	**790**	18	2254	2	**809**	0	2254	2	**809**
	Through-Right		1							1				1				1	
	Right	115	0	115	40	155	155	0	133	0	133	40	173	0	173	0	173	0	173
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	283	1	156	3	286	157	0	326	1	179	3	329	1	181	0	329	1	181
	Left-Through		1							1				1				1	
	Through	140	0	**377**	0	140	**377**	0	161	0	**434**	0	161	0	**434**	0	161	0	**434**
	Through-Right		1							1				1				1	
	Right	237	0	237	0	237	237	0	273	0	273	0	273	0	273	0	273	0	273
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	29	1	**29**	0	29	29	0	33	1	**33**	0	33	1	33	0	33	1	33
	Left-Through		0							0				0				0	
	Through	25	1	25	6	31	**31**	0	28	1	28	6	34	1	**34**	0	34	1	**34**
	Through-Right		1							1				1				1	
	Right	32	0	0	0	32	0	0	37	0	0	0	37	0	0	0	37	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		726	*North-South:*		745	*North-South:*			836	*North-South:*			855	*North-South:*			855
		East-West:		406	*East-West:*		408	*East-West:*			467	*East-West:*			468	*East-West:*			468
		SUM:		1132	*SUM:*		1153	*SUM:*			1303	*SUM:*			1323	*SUM:*			1323
	VOLUME/CAPACITY *(V/C)* RATIO:			0.823			0.839				0.948				0.962				0.962
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.723			0.739				0.848				0.862				0.862
	LEVEL OF SERVICE (LOS):			C			C				D				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.016

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.014

Significant impacted? NO

Δ*v/c* after mitigation: 0.014

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
5	East-West Street:	Plummer Street	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Marymount (San Pedro Campus)

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2			2				2				2	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		0	EB-- 0 WB--		0	EB-- 0 WB--		0		EB-- 0 WB--		0		EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	112	1	**112**	0	112	**112**	0	129	1	**129**	0	129	1	**129**	0	129	1	**129**
	Left-Through		0							0				0				0	
	Through	1654	2	576	18	1672	582	0	1904	2	664	18	1922	2	670	0	1922	2	670
	Through-Right		1							1				1				1	
	Right	75	0	75	0	75	75	0	87	0	87	0	87	0	87	0	87	0	87
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	23	1	23	0	23	23	0	26	1	26	0	26	1	26	0	26	1	26
	Left-Through		0							0				0				0	
	Through	1730	2	**638**	18	1748	**645**	0	1992	2	**734**	18	2010	2	**741**	0	2010	2	**741**
	Through-Right		1							1				1				1	
	Right	183	0	183	3	186	186	0	211	0	211	3	214	0	214	0	214	0	214
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	138	1	76	40	178	98	0	159	1	87	40	199	1	109	0	199	1	109
	Left-Through		1							1				1				1	
	Through	53	0	**170**	6	59	**176**	0	60	0	**195**	6	66	0	**201**	0	66	0	**201**
	Through-Right		1							1				1				1	
	Right	117	0	117	0	117	117	0	135	0	135	0	135	0	135	0	135	0	135
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	44	1	44	0	44	44	0	51	1	51	0	51	1	51	0	51	1	51
	Left-Through		0							0				0				0	
	Through	137	1	**115**	0	137	**115**	0	158	1	**133**	0	158	1	**133**	0	158	1	**133**
	Through-Right		1							1				1				1	
	Right	93	0	93	0	93	93	0	107	0	107	0	107	0	107	0	107	0	107
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		750	*North-South:*		757	*North-South:*			863	*North-South:*			870	*North-South:*			870
		East-West:		285	*East-West:*		291	*East-West:*			328	*East-West:*			334	*East-West:*			334
		SUM:		1035	*SUM:*		1048	*SUM:*			1191	*SUM:*			1204	*SUM:*			1204
	VOLUME/CAPACITY *(V/C)* RATIO:			0.753			0.762				0.866				0.876				0.876
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.653			0.662				0.766				0.776				0.776
	LEVEL OF SERVICE (LOS):			B			B				C				C				C

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.009

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.010

Significant impacted? NO

$\Delta v/c$ after mitigation: 0.010

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
7	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	3	1	3	0	3	3	0	4	1	4	0	4	1	4	0	4	1	4
Left-Through		0							0				0				0	
Through	383	1	**383**	46	429	**429**	0	441	1	**441**	46	487	1	**487**	0	487	1	**487**
Through-Right		0							0				0				0	
Right	260	1	117	0	260	117	0	299	1	134	0	299	1	134	0	299	1	134
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
													0					
SOUTHBOUND																		
Left	382	1	382	21	403	403	0	440	1	440	21	461	1	461	0	461	1	461
Left-Through		0							0				0				0	
Through	499	0	**501**	6	505	**507**	0	574	0	**576**	6	580	0	**582**	0	580	0	**582**
Through-Right		1							1				1				1	
Right	2	0	0	0	2	0	0	2	0	0	0	2	0	0	0	2	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
													0					
EASTBOUND																		
Left	3	1	3	0	3	3	0	4	1	4	0	4	1	4	0	4	1	4
Left-Through		0							0				0				0	
Through	3	0	**4**	0	3	**4**	0	4	0	**5**	0	4	0	**5**	0	4	0	**5**
Through-Right		1							1				1				1	
Right	1	0	0	0	1	0	0	1	0	0	0	1	0	0	0	1	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
													0					
WESTBOUND																		
Left	287	1	**287**	0	287	**287**	0	331	1	**331**	0	331	1	**331**	0	331	1	**331**
Left-Through		0							0				0				0	
Through	1	1	1	0	1	1	0	1	1	1	0	1	1	1	0	1	1	1
Through-Right		0							0				0				0	
Right	110	1	0	47	157	0	0	127	1	0	47	174	1	0	0	174	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		884			936			*North-South:*	1017				1069				1069
	East-West:		291			291			*East-West:*	336				336				336
	SUM:		1175			1227			*SUM:*	1353				1405				1405
VOLUME/CAPACITY *(V/C)* RATIO:			0.825			0.861				0.949				0.986				0.986
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.725			0.761				0.849				0.886				0.886
LEVEL OF SERVICE (LOS):			C			C				D				D				D

	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0	NB--	0	SB--	0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0	EB--	3	WB--	0

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.036

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.037

Significant impacted? YES

$\Delta v/c$ after mitigation: 0.037

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
7	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			3			3			3				3				3	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1			1			1				1				1	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 3 WB--		0	EB-- 3 WB--		0	EB-- 3 WB--		0		EB-- 3 WB--		0		EB-- 3 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	5	1	5	0	5	5	0	6	1	6	0	6	1	6	0	6	1	6
	Left-Through		0							0				0				0	
	Through	472	1	**472**	6	478	**478**	0	543	1	**543**	6	549	1	**549**	0	549	1	**549**
	Through-Right		0							0				0				0	
	Right	264	1	168	0	264	168	0	304	1	193	0	304	1	193	0	304	1	193
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	125	1	125	47	172	172	0	143	1	143	47	190	1	190	0	190	1	190
	Left-Through		0							0				0				0	
	Through	193	0	**196**	46	239	**242**	0	222	0	**226**	46	268	0	**272**	0	268	0	**272**
	Through-Right		1							1				1				1	
	Right	3	0	0	0	3	0	0	4	0	0	0	4	0	0	0	4	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	1	1	**1**	0	1	**1**	0	1	1	**1**	0	1	1	**1**	0	1	1	**1**
	Left-Through		0							0				0				0	
	Through	1	0	5	0	1	5	0	1	0	6	0	1	0	6	0	1	0	6
	Through-Right		1							1				1				1	
	Right	4	0	0	0	4	0	0	5	0	0	0	5	0	0	0	5	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	193	1	193	0	193	193	0	222	1	222	0	222	1	222	0	222	1	222
	Left-Through		0							0				0				0	
	Through	2	1	2	0	2	2	0	2	1	2	0	2	1	2	0	2	1	2
	Through-Right		0							0				0				0	
	Right	290	1	**228**	21	311	**225**	0	334	1	**263**	21	355	1	**260**	0	355	1	**260**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		668			720	*North-South:*			769				821				821
		East-West:		229			226	*East-West:*			264				261				261
		SUM:		897			946	*SUM:*			1033				1082				1082
	VOLUME/CAPACITY *(V/C)* RATIO:			0.629			0.664				0.725				0.759				0.759
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.529			0.564				0.625				0.659				0.659
	LEVEL OF SERVICE (LOS):			A			A				B				B				B

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.035

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.034

Significant impacted? NO

$\Delta v/c$ after mitigation: 0.034

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
8	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0	NB-- SB-- EB-- WB--		0		NB-- 0 SB-- EB-- 0 WB--		0		NB-- 0 SB-- EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	82	1	**82**	23	105	**105**	0	95	1	**95**	23	118	1	**118**	0	118	1	**118**
	Left-Through		0							0				0				0	
	Through	720	2	274	0	720	274	0	829	2	315	0	829	2	315	0	829	2	315
	Through-Right		1							1				1				1	
	Right	102	0	102	0	102	102	0	117	0	117	0	117	0	117	0	117	0	117
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	70	1	70	0	70	70	0	81	1	81	0	81	1	81	0	81	1	81
	Left-Through		0							0				0				0	
	Through	1364	3	**455**	0	1364	**455**	0	1570	3	**523**	0	1570	3	**523**	0	1570	3	**523**
	Through-Right		0							0				0				0	
	Right	578	1	440	18	596	453	0	665	1	507	18	683	1	520	0	683	1	520
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	502	2	**276**	18	520	**286**	0	577	2	**317**	18	595	2	**327**	0	595	2	**327**
	Left-Through		0							0				0				0	
	Through	484	2	242	0	484	242	0	557	2	279	0	557	2	279	0	557	2	279
	Through-Right		0							0				0				0	
	Right	37	1	0	3	40	0	0	43	1	0	3	46	1	0	0	46	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	175	2	96	0	175	96	0	202	2	111	0	202	2	111	0	202	2	111
	Left-Through		0							0				0				0	
	Through	486	2	**243**	6	492	**246**	0	560	2	**280**	6	566	2	**283**	0	566	2	**283**
	Through-Right		0							0				0				0	
	Right	55	1	20	0	55	20	0	63	1	23	0	63	1	23	0	63	1	23
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		537	*North-South:*		560	*North-South:*			618	*North-South:*			641	*North-South:*			641
		East-West:		519	*East-West:*		532	*East-West:*			597	*East-West:*			610	*East-West:*			610
		SUM:		1056	*SUM:*		1092	*SUM:*			1215	*SUM:*			1251	*SUM:*			1251
	VOLUME/CAPACITY (*V/C*) RATIO:			0.768			0.794				0.884				0.910				0.910
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.668			0.694				0.784				0.810				0.810
	LEVEL OF SERVICE (LOS):			B			B				C				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.026

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.026

Significant impacted? YES

Δ*v/c* after mitigation: 0.026

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
8	East-West Street:	Roscoe Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		0	EB-- 0 WB--		0	EB-- 0 WB--		0		EB-- 0 WB--		0		EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	115	1	115	3	118	118	0	133	1	133	3	136	1	136	0	136	1	136
	Left-Through		0							0				0				0	
	Through	1239	2	**492**	0	1239	**492**	0	1426	2	**566**	0	1426	2	**566**	0	1426	2	**566**
	Through-Right		1							1				1				1	
	Right	236	0	236	0	236	236	0	272	0	272	0	272	0	272	0	272	0	272
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	119	1	**119**	0	119	**119**	0	138	1	**138**	0	138	1	**138**	0	138	1	**138**
	Left-Through		0							0				0				0	
	Through	1327	3	442	0	1327	442	0	1527	3	509	0	1527	3	509	0	1527	3	509
	Through-Right		0							0				0				0	
	Right	615	1	464	18	633	477	0	708	1	534	18	726	1	547	0	726	1	547
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	549	2	**302**	18	567	**312**	0	632	2	**348**	18	650	2	**358**	0	650	2	**358**
	Left-Through		0							0				0				0	
	Through	809	2	405	6	815	408	0	931	2	466	6	937	2	469	0	937	2	469
	Through-Right		0							0				0				0	
	Right	80	1	23	23	103	44	0	92	1	26	23	115	1	47	0	115	1	47
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	259	2	142	0	259	142	0	298	2	164	0	298	2	164	0	298	2	164
	Left-Through		0							0				0				0	
	Through	568	2	**284**	0	568	**284**	0	653	2	**327**	0	653	2	**327**	0	653	2	**327**
	Through-Right		0							0				0				0	
	Right	94	1	35	0	94	35	0	108	1	39	0	108	1	39	0	108	1	39
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		611	*North-South:*		611	*North-South:*			704	*North-South:*			704	*North-South:*			704
		East-West:		586	*East-West:*		596	*East-West:*			675	*East-West:*			685	*East-West:*			685
		SUM:		1197	*SUM:*		1207	*SUM:*			1379	*SUM:*			1389	*SUM:*			1389
	VOLUME/CAPACITY *(V/C)* RATIO:			0.871			0.878				1.003				1.010				1.010
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.771			0.778				0.903				0.910				0.910
	LEVEL OF SERVICE (LOS):			C			C				E				E				E

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.007

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.007

Significant impacted? NO

Δ*v/c* after mitigation: 0.007

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
9	East-West Street:	Sherman Way	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		3	
		EB-- 3 WB--		0	EB-- 3 WB--		0	EB-- 3 WB--		0		EB-- 3 WB--		0		EB-- 3 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	114	1	**114**	0	114	**114**	0	132	1	**132**	0	132	1	**132**	0	132	1	**132**
	Left-Through		0							0				0				0	
	Through	1113	2	412	16	1129	418	0	1281	2	474	16	1297	2	480	0	1297	2	480
	Through-Right		1							1				1				1	
	Right	124	0	124	0	124	124	0	142	0	142	0	142	0	142	0	142	0	142
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	107	1	107	0	107	107	0	123	1	123	0	123	1	123	0	123	1	123
	Left-Through		0							0				0				0	
	Through	1740	2	**625**	3	1743	**626**	0	2003	2	**720**	3	2006	2	**721**	0	2006	2	**721**
	Through-Right		1							1				1				1	
	Right	135	0	135	0	135	135	0	156	0	156	0	156	0	156	0	156	0	156
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	238	2	**131**	0	238	**131**	0	274	2	**151**	0	274	2	**151**	0	274	2	**151**
	Left-Through		0							0				0				0	
	Through	594	2	297	0	594	297	0	684	2	342	0	684	2	342	0	684	2	342
	Through-Right		0							0				0				0	
	Right	156	1	42	0	156	42	0	180	1	48	0	180	1	48	0	180	1	48
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	243	2	134	0	243	134	0	280	2	154	0	280	2	154	0	280	2	154
	Left-Through		0							0				0				0	
	Through	669	1	**376**	0	669	**379**	0	770	1	**433**	0	770	1	**436**	0	770	1	**436**
	Through-Right		1							1				1				1	
	Right	82	0	82	6	88	88	0	95	0	95	6	101	0	101	0	101	0	101
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*	739		*North-South:*	740		*North-South:*	852			*North-South:*	853			*North-South:*	853		
		East-West:	507		*East-West:*	510		*East-West:*	584			*East-West:*	587			*East-West:*	587		
		SUM:	1246		*SUM:*	1250		*SUM:*	1436			*SUM:*	1440			*SUM:*	1440		
	VOLUME/CAPACITY *(V/C)* RATIO:		0.906			0.909			1.044				1.047				1.047		
	V/C LESS ATSAC/ATCS ADJUSTMENT:		0.806			0.809			0.944				0.947				0.947		
	LEVEL OF SERVICE (LOS):		D			D			E				E				E		

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.003

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.003

Significant impacted? NO

Δ*v/c* after mitigation: 0.003

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
9	East-West Street:	Sherman Way	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		3	
		EB-- 3 WB--		0	EB-- 3 WB--		0	EB-- 3 WB--		0		EB-- 3 WB--		0		EB-- 3 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	149	1	149	0	149	149	0	171	1	171	0	171	1	171	0	171	1	171
	Left-Through		0							0				0				0	
	Through	1476	2	**555**	3	1479	**556**	0	1699	2	**639**	3	1702	2	**640**	0	1702	2	**640**
	Through-Right		1							1				1				1	
	Right	188	0	188	0	188	188	0	217	0	217	0	217	0	217	0	217	0	217
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	141	1	**141**	6	147	**147**	0	163	1	**163**	6	169	1	**169**	0	169	1	**169**
	Left-Through		0							0				0				0	
	Through	1340	2	509	16	1356	514	0	1542	2	585	16	1558	2	591	0	1558	2	591
	Through-Right		1							1				1				1	
	Right	186	0	186	0	186	186	0	214	0	214	0	214	0	214	0	214	0	214
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	282	2	**155**	0	282	**155**	0	325	2	**179**	0	325	2	**179**	0	325	2	**179**
	Left-Through		0							0				0				0	
	Through	638	2	319	0	638	319	0	734	2	367	0	734	2	367	0	734	2	367
	Through-Right		0							0				0				0	
	Right	176	1	27	0	176	27	0	202	1	31	0	202	1	31	0	202	1	31
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	226	2	124	0	226	124	0	260	2	143	0	260	2	143	0	260	2	143
	Left-Through		0							0				0				0	
	Through	589	1	**360**	0	589	**360**	0	678	1	**415**	0	678	1	**415**	0	678	1	**415**
	Through-Right		1							1				1				1	
	Right	131	0	131	0	131	131	0	151	0	151	0	151	0	151	0	151	0	151
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	North-South:		696	North-South:		703	North-South:			802	North-South:			809	North-South:			809
		East-West:		515	East-West:		515	East-West:			594	East-West:			594	East-West:			594
		SUM:		1211	SUM:		1218	SUM:			1396	SUM:			1403	SUM:			1403
	VOLUME/CAPACITY (V/C) RATIO:			0.881			0.886				1.015				1.020				1.020
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.781			0.786				0.915				0.920				0.920
	LEVEL OF SERVICE (LOS):			C			C				E				E				E

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.005

Significant impacted? NO

PROJECT IMPACT

Change in v/c due to project: 0.005

Significant impacted? NO

Δv/c after mitigation: 0.005

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
10	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			4			4			4				4			4		
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0			0		
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0		NB-- 0	SB--	0		NB-- 0	SB--	0	
	EB-- 0	WB--	0	EB-- 0	WB--	0	EB-- 0	WB--	0		EB-- 0	WB--	0		EB-- 0	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	28	1	**28**	0	28	**28**	0	32	1	**32**	0	32	1	**32**	0	32	1	**32**
	Left-Through		0							0				0				0	
	Through	716	2	321	46	762	336	0	824	2	369	46	870	2	384	0	870	2	384
	Through-Right		1							1				1				1	
	Right	246	0	246	0	246	246	0	283	0	283	0	283	0	283	0	283	0	283
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	210	1	210	0	210	210	0	242	1	242	0	242	1	242	0	242	1	242
	Left-Through		0							0				0				0	
	Through	1318	2	**659**	6	1324	**662**	0	1518	2	**759**	6	1524	2	**762**	0	1524	2	**762**
	Through-Right		0							0				0				0	
	Right	35	1	0	0	35	0	0	40	1	0	0	40	1	0	0	40	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	96	1	96	0	96	96	0	110	1	110	0	110	1	110	0	110	1	110
	Left-Through		0							0				0				0	
	Through	202	1	**133**	0	202	**133**	0	232	1	**153**	0	232	1	**153**	0	232	1	**153**
	Through-Right		1							1				1				1	
	Right	64	0	64	0	64	64	0	74	0	74	0	74	0	74	0	74	0	74
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	278	1	**278**	0	278	**278**	0	320	1	**320**	0	320	1	**320**	0	320	1	**320**
	Left-Through		0							0				0				0	
	Through	52	1	52	0	52	52	0	59	1	59	0	59	1	59	0	59	1	59
	Through-Right		1							1				1				1	
	Right	116	0	11	0	116	11	0	134	0	13	0	134	0	13	0	134	0	13
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		687	*North-South:*		690	*North-South:*			791	*North-South:*			794	*North-South:*			794
		East-West:		411	*East-West:*		411	*East-West:*			473	*East-West:*			473	*East-West:*			473
		SUM:		1098	*SUM:*		1101	*SUM:*			1264	*SUM:*			1267	*SUM:*			1267
VOLUME/CAPACITY (*V/C*) RATIO:				0.799			0.801				0.919				0.921				0.921
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.699			0.701				0.819				0.821				0.821
LEVEL OF SERVICE (LOS):				B			C				D				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.002

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.002

Significant impacted? NO

Δ*v/c* after mitigation: 0.002

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
10	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0	NB-- SB-- EB-- WB--		0		NB-- 0 SB-- EB-- 0 WB--		0		NB-- 0 SB-- EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	34	1	34	0	34	34	0	39	1	39	0	39	1	39	0	39	1	39
	Left-Through		0							0				0				0	
	Through	1024	2	**417**	6	1030	**419**	0	1178	2	**480**	6	1184	2	**482**	0	1184	2	**482**
	Through-Right		1							1				1				1	
	Right	228	0	228	0	228	228	0	262	0	262	0	262	0	262	0	262	0	262
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	149	1	**149**	0	149	**149**	0	172	1	**172**	0	172	1	**172**	0	172	1	**172**
	Left-Through		0							0				0				0	
	Through	535	2	268	46	581	291	0	615	2	308	46	661	2	331	0	661	2	331
	Through-Right		0							0				0				0	
	Right	28	1	7	0	28	7	0	32	1	7	0	32	1	7	0	32	1	7
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	43	1	43	0	43	43	0	50	1	50	0	50	1	50	0	50	1	50
	Left-Through		0							0				0				0	
	Through	110	1	**66**	0	110	**66**	0	127	1	**76**	0	127	1	**76**	0	127	1	**76**
	Through-Right		1							1				1				1	
	Right	21	0	21	0	21	21	0	24	0	24	0	24	0	24	0	24	0	24
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	209	1	**209**	0	209	**209**	0	241	1	**241**	0	241	1	**241**	0	241	1	**241**
	Left-Through		0							0				0				0	
	Through	92	1	92	0	92	92	0	106	1	106	0	106	1	106	0	106	1	106
	Through-Right		1							1				1				1	
	Right	158	0	84	0	158	84	0	181	0	95	0	181	0	95	0	181	0	95
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		566	*North-South:*		568	*North-South:*			652	*North-South:*			654	*North-South:*			654
		East-West:		275	*East-West:*		275	*East-West:*			317	*East-West:*			317	*East-West:*			317
		SUM:		841	*SUM:*		843	*SUM:*			969	*SUM:*			971	*SUM:*			971
	VOLUME/CAPACITY *(V/C)* RATIO:			0.612			0.613				0.705				0.706				0.706
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.512			0.513				0.605				0.606				0.606
	LEVEL OF SERVICE (LOS):			A			A				B				B				B

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.001

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.001

Significant impacted? NO

Δ*v/c* after mitigation: 0.001

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
11	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4					4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0					0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		3	EB-- 0 WB--		3	EB-- 0 WB--		3		EB-- 0 WB--		3		EB-- 0 WB--		3	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	109	1	109	0	109	109	0	126	1	126	0	126	1	126	0	126	1	126
	Left-Through		0							0				0				0	
	Through	911	1	**520**	16	927	**528**	0	1049	1	**599**	16	1065	1	**607**	0	1065	1	**607**
	Through-Right		1							1				1				1	
	Right	129	0	129	0	129	129	0	149	0	149	0	149	0	149	0	149	0	149
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	172	1	**172**	0	172	**172**	0	198	1	**198**	0	198	1	**198**	0	198	1	**198**
	Left-Through		0							0				0				0	
	Through	1584	2	569	3	1587	570	0	1823	2	654	3	1826	2	655	0	1826	2	655
	Through-Right		1							1				1				1	
	Right	122	0	122	0	122	122	0	140	0	140	0	140	0	140	0	140	0	140
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	119	2	65	0	119	65	0	137	2	75	0	137	2	75	0	137	2	75
	Left-Through		0							0				0				0	
	Through	762	2	**381**	0	762	**381**	0	877	2	**439**	0	877	2	**439**	0	877	2	**439**
	Through-Right		0							0				0				0	
	Right	166	1	112	0	166	112	0	191	1	128	0	191	1	128	0	191	1	128
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	231	2	**127**	0	231	**127**	0	266	2	**146**	0	266	2	**146**	0	266	2	**146**
	Left-Through		0							0				0				0	
	Through	629	2	315	0	629	315	0	724	2	362	0	724	2	362	0	724	2	362
	Through-Right		0							0				0				0	
	Right	146	1	0	0	146	0	0	168	1	0	0	168	1	0	0	168	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	North-South:		692	North-South:		700	North-South:		797		North-South:		805		North-South:		805	
		East-West:		508	East-West:		508	East-West:		585		East-West:		585		East-West:		585	
		SUM:		1200	SUM:		1208	SUM:		1382		SUM:		1390		SUM:		1390	
	VOLUME/CAPACITY (V/C) RATIO:			0.873			0.879			1.005				1.011					1.011
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.773			0.779			0.905				0.911					0.911
	LEVEL OF SERVICE (LOS):			C			C			E				E					E

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.006

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.006

Significant impacted? NO

Δ*v/c* after mitigation: 0.006

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
11	East-West Street:	Victory Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			4			4			4				4			4			4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0			0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0		NB-- 0	SB--	0		NB-- 0	SB--	0	
	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3		EB-- 0	WB--	3		EB-- 0	WB--	3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	110	1	110	0	110	110	0	126	1	126	0	126	1	126	0	126	1	126
	Left-Through		0							0				0				0	
	Through	1093	1	**644**	3	1096	**645**	0	1258	1	**741**	3	1261	1	**743**	0	1261	1	**743**
	Through-Right		1							1				1				1	
	Right	194	0	194	0	194	194	0	224	0	224	0	224	0	224	0	224	0	224
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	243	1	**243**	0	243	**243**	0	280	1	**280**	0	280	1	**280**	0	280	1	**280**
	Left-Through		0							0				0				0	
	Through	1401	2	527	16	1417	532	0	1612	2	606	16	1628	2	611	0	1628	2	611
	Through-Right		1							1				1				1	
	Right	179	0	179	0	179	179	0	206	0	206	0	206	0	206	0	206	0	206
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	229	2	126	0	229	126	0	263	2	145	0	263	2	145	0	263	2	145
	Left-Through		0							0				0				0	
	Through	971	2	**486**	0	971	**486**	0	1118	2	**559**	0	1118	2	**559**	0	1118	2	**559**
	Through-Right		0							0				0				0	
	Right	197	1	142	0	197	142	0	227	1	164	0	227	1	164	0	227	1	164
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	313	2	**172**	0	313	**172**	0	361	2	**199**	0	361	2	**199**	0	361	2	**199**
	Left-Through		0							0				0				0	
	Through	1007	2	504	0	1007	504	0	1159	2	580	0	1159	2	580	0	1159	2	580
	Through-Right		0							0				0				0	
	Right	381	1	138	0	381	138	0	438	1	158	0	438	1	158	0	438	1	158
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		887	*North-South:*		888	*North-South:*			1021	*North-South:*			1023	*North-South:*			1023
		East-West:		658	*East-West:*		658	*East-West:*			758	*East-West:*			758	*East-West:*			758
		SUM:		1545	*SUM:*		1546	*SUM:*			1779	*SUM:*			1781	*SUM:*			1781
VOLUME/CAPACITY (*V/C*) RATIO:				1.124			1.124				1.294				1.295				1.295
V/C LESS ATSAC/ATCS ADJUSTMENT:				1.024			1.024				1.194				1.195				1.195
LEVEL OF SERVICE (LOS):				F			F				F				F				F

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.001

Significant impacted? NO

Δ*v/c* after mitigation: 0.001

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
12	East-West Street:	Burbank Boulevard	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			2			2			2				2				2	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		3	EB-- 0 WB--		3	EB-- 0 WB--		3		EB-- 0 WB--		3		EB-- 0 WB--		3	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	250	1	**250**	0	250	**250**	0	288	1	**288**	0	288	1	**288**	0	288	1	**288**
	Left-Through		0							0				0				0	
	Through	1746	3	582	16	1762	587	0	2010	3	670	16	2026	3	675	0	2026	3	675
	Through-Right		0							0				0				0	
	Right	553	1	478	0	553	478	0	637	1	550	0	637	1	550	0	637	1	550
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	114	1	114	0	114	114	0	132	1	132	0	132	1	132	0	132	1	132
	Left-Through		0							0				0				0	
	Through	1275	3	425	3	1278	426	0	1467	3	489	3	1470	3	490	0	1470	3	490
	Through-Right		0							0				0				0	
	Right	561	1	**546**	0	561	**546**	0	645	1	**627**	0	645	1	**627**	0	645	1	**627**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	31	1	31	0	31	31	0	36	1	36	0	36	1	36	0	36	1	36
	Left-Through		0							0				0				0	
	Through	391	2	**196**	0	391	**196**	0	450	2	**225**	0	450	2	**225**	0	450	2	**225**
	Through-Right		0							0				0				0	
	Right	235	1	110	0	235	110	0	271	1	127	0	271	1	127	0	271	1	127
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	151	1	**151**	0	151	**151**	0	174	1	**174**	0	174	1	**174**	0	174	1	**174**
	Left-Through		0							0				0				0	
	Through	508	2	254	0	508	254	0	585	2	293	0	585	2	293	0	585	2	293
	Through-Right		0							0				0				0	
	Right	57	1	0	0	57	0	0	65	1	0	0	65	1	0	0	65	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		796	*North-South:*		796	*North-South:*			915	*North-South:*			915	*North-South:*			915
		East-West:		347	*East-West:*		347	*East-West:*			399	*East-West:*			399	*East-West:*			399
		SUM:		1143	*SUM:*		1143	*SUM:*			1314	*SUM:*			1314	*SUM:*			1314
	VOLUME/CAPACITY (V/C) RATIO:			0.762			0.762				0.876				0.876				0.876
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.662			0.662				0.776				0.776				0.776
	LEVEL OF SERVICE (LOS):			B			B				C				C				C

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

Δv/c after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Topanga Canyon Boulevard	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
12	East-West Street:	Burbank Boulevard	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

No. of Phases			2			2			2			2			2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0	
	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3	EB-- 0	WB--	3	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2				2
Override Capacity			0			0			0			0			0				0

	MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	365	1	**365**	0	365	**365**	0	420	1	**420**	0	420	1	**420**	0	420	1	**420**
	Left-Through		0							0				0				0	
	Through	2217	3	739	3	2220	740	0	2552	3	851	3	2555	3	852	0	2555	3	852
	Through-Right		0							0				0				0	
	Right	499	1	349	0	499	349	0	574	1	401	0	574	1	401	0	574	1	401
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	67	1	67	0	67	67	0	78	1	78	0	78	1	78	0	78	1	78
	Left-Through		0							0				0				0	
	Through	1388	3	463	16	1404	468	0	1597	3	532	16	1613	3	538	0	1613	3	538
	Through-Right		0							0				0				0	
	Right	631	1	**614**	0	631	**614**	0	726	1	**706**	0	726	1	**706**	0	726	1	**706**
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	34	1	**34**	0	34	**34**	0	40	1	**40**	0	40	1	**40**	0	40	1	**40**
	Left-Through		0							0				0				0	
	Through	295	2	148	0	295	148	0	340	2	170	0	340	2	170	0	340	2	170
	Through-Right		0							0				0				0	
	Right	218	1	36	0	218	36	0	251	1	41	0	251	1	41	0	251	1	41
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	300	1	300	0	300	300	0	346	1	346	0	346	1	346	0	346	1	346
	Left-Through		0							0				0				0	
	Through	1003	2	**502**	0	1003	**502**	0	1154	2	**577**	0	1154	2	**577**	0	1154	2	**577**
	Through-Right		0							0				0				0	
	Right	66	1	0	0	66	0	0	76	1	0	0	76	1	0	0	76	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		979	*North-South:*		979	*North-South:*			1126	*North-South:*			1126	*North-South:*			1126
		East-West:		536	*East-West:*		536	*East-West:*			617	*East-West:*			617	*East-West:*			617
		SUM:		1515	*SUM:*		1515	*SUM:*			1743	*SUM:*			1743	*SUM:*			1743
VOLUME/CAPACITY *(V/C)* RATIO:				1.010			1.010				1.162				1.162				1.162
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.910			0.910				1.062				1.062				1.062
LEVEL OF SERVICE (LOS):				E			E				F				F				F

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δ*v/c* after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard		Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
14	East-West Street:	US-101 NB Off Ramp		Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	440	1	**440**	0	440	**440**	0	506	1	**506**	0	506	1	**506**	0	506	1	**506**
Left-Through		0							0				0				0	
Through	862	2	431	26	888	444	0	992	2	496	26	1018	2	509	0	1018	2	509
Through-Right		0							0				0				0	
Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Left-Through		0							0				0				0	
Through	1465	2	733	6	1471	736	0	1686	2	843	6	1692	2	846	0	1692	2	846
Through-Right		0							0				0				0	
Right	857	1	**839**	0	857	**839**	0	986	1	**966**	0	986	1	**966**	0	986	1	**966**
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	18	1	**18**	0	18	**18**	0	20	1	**20**	0	20	1	**20**	0	20	1	**20**
Left-Through		0							0				0				0	
Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Through-Right		0							0				0				0	
Right	92	1	0	0	92	0	0	106	1	0	0	106	1	0	0	106	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	442	1	**243**	0	442	**243**	0	509	1	**280**	0	509	1	**280**	0	509	1	**280**
Left-Through		1							1				1				1	
Through	48	0	216	0	48	226	0	56	0	249	0	56	0	259	0	56	0	259
Through-Right		1							1				1				1	
Right	383	1	0	20	403	0	0	441	1	0	20	461	1	0	0	461	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		1279	*North-South:*		1279	*North-South:*			1472	*North-South:*			1472	*North-South:*			1472
	East-West:		261	*East-West:*		261	*East-West:*			300	*East-West:*			300	*East-West:*			300
	SUM:		1540	*SUM:*		1540	*SUM:*			1772	*SUM:*			1772	*SUM:*			1772
VOLUME/CAPACITY *(V/C)* RATIO:			1.120			1.120				1.289				1.289				1.289
V/C LESS ATSAC/ATCS ADJUSTMENT:			1.020			1.020				1.189				1.189				1.189
LEVEL OF SERVICE (LOS):			F			F				F				F				F

	NB--	SB--	EB--	WB--
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	3	3	0

No. of Phases	4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	2
ATSAC-1 or ATSAC+ATCS-2?	2
Override Capacity	0

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

$\Delta v/c$ after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard		Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
14	East-West Street:	US-101 NB Off Ramp		Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
No. of Phases			4			4			4				4				4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			2			2			2				2				2	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 3 WB--		3 0	NB-- 0 SB-- EB-- 3 WB--		3 0	NB-- 0 SB-- EB-- 3 WB--		3 0		NB-- 0 SB-- EB-- 3 WB--		3 0		NB-- 0 SB-- EB-- 3 WB--		3 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	
NORTHBOUND																		
Left	266	1	266	0	266	266	0	306	1	306	0	306	1	306	0	306	1	306
Left-Through		0							0				0				0	
Through	1742	2	**871**	0	1742	**871**	0	2005	2	**1003**	0	2005	2	**1003**	0	2005	2	**1003**
Through-Right		0							0				0				0	
Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	0	1	**0**	0	0	**0**	0	0	1	**0**	0	0	1	**0**	0	0	1	**0**
Left-Through		0							0				0				0	
Through	814	2	407	20	834	417	0	937	2	469	20	957	2	479	0	957	2	479
Through-Right		0							0				0				0	
Right	445	1	411	26	471	437	0	512	1	473	26	538	1	499	0	538	1	499
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	34	1	**34**	0	34	**34**	0	39	1	**39**	0	39	1	**39**	0	39	1	**39**
Left-Through		0							0				0				0	
Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Through-Right		0							0				0				0	
Right	53	1	0	0	53	0	0	60	1	0	0	60	1	0	0	60	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	531	1	292	0	531	292	0	612	1	337	0	612	1	337	0	612	1	337
Left-Through		1							1				1				1	
Through	34	0	**307**	0	34	**310**	0	39	0	**353**	0	39	0	**356**	0	39	0	**356**
Through-Right		1							1				1				1	
Right	580	1	0	6	586	0	0	667	1	0	6	673	1	0	0	673	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		871	*North-South:*		871	*North-South:*			1003	*North-South:*			1003	*North-South:*			1003
	East-West:		341	*East-West:*		344	*East-West:*			392	*East-West:*			395	*East-West:*			395
	SUM:		1212	*SUM:*		1215	*SUM:*			1395	*SUM:*			1398	*SUM:*			1398
VOLUME/CAPACITY *(V/C)* RATIO:			0.881			0.884				1.015				1.017				1.017
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.781			0.784				0.915				0.917				0.917
LEVEL OF SERVICE (LOS):			C			C				E				E				E

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.003

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.002

Significant impacted? NO

Δ*v/c* after mitigation: 0.002

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
15	East-West Street:	Calabasas Road/Avenue San Luis	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4				4	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 3 SB--		0	NB-- 3 SB--		0	NB-- 3 SB--		0		NB-- 3 SB--		0		NB-- 3 SB--		0	
		EB-- 3 WB--		3	EB-- 3 WB--		3	EB-- 3 WB--		3		EB-- 3 WB--		3		EB-- 3 WB--		3	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	105	1	105	0	105	105	0	121	1	121	0	121	1	121	0	121	1	121
	Left-Through		0							0				0				0	
	Through	1093	2	**547**	0	1093	**547**	0	1258	2	**629**	0	1258	2	**629**	0	1258	2	**629**
	Through-Right		0							0				0				0	
	Right	67	1	0	0	67	0	0	77	1	0	0	77	1	0	0	77	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	87	1	**87**	0	87	**87**	0	100	1	**100**	0	100	1	**100**	0	100	1	**100**
	Left-Through		0							0				0				0	
	Through	823	2	412	0	823	412	0	947	2	474	0	947	2	474	0	947	2	474
	Through-Right		0							0				0				0	
	Right	1043	2	448	6	1049	444	0	1201	2	516	6	1207	2	512	0	1207	2	512
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	458	2	**252**	26	484	**266**	0	528	2	**290**	26	554	2	**305**	0	554	2	**305**
	Left-Through		0							0				0				0	
	Through	129	2	65	0	129	65	0	148	2	74	0	148	2	74	0	148	2	74
	Through-Right		0							0				0				0	
	Right	417	1	312	0	417	312	0	480	1	359	0	480	1	359	0	480	1	359
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	104	1	104	0	104	104	0	120	1	120	0	120	1	120	0	120	1	120
	Left-Through		0							0				0				0	
	Through	263	1	**263**	0	263	**263**	0	302	1	**302**	0	302	1	**302**	0	302	1	**302**
	Through-Right		0							0				0				0	
	Right	272	1	185	0	272	185	0	313	1	213	0	313	1	213	0	313	1	213
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		634	*North-South:*		634	*North-South:*			729	*North-South:*			729	*North-South:*			729
		East-West:		515	*East-West:*		529	*East-West:*			592	*East-West:*			607	*East-West:*			607
		SUM:		1149	*SUM:*		1163	*SUM:*			1321	*SUM:*			1336	*SUM:*			1336
	VOLUME/CAPACITY (*V/C*) RATIO:			0.836			0.846				0.961				0.972				0.972
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.736			0.746				0.861				0.872				0.872
	LEVEL OF SERVICE (LOS):			C			C				D				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.010

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.011

Significant impacted? NO

Δ*v/c* after mitigation: 0.011

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Valley Cir Boulevard			Year of Count:	2018		Ambient Growth: (%):	1.01		Conducted by:	KOA Corp		Date:	3/6/2017	
15	East-West Street:	Calabasas Road/Avenue San Luis			Projection Year:	2032		Peak Hour:	PM		Reviewed by:			Project:	Marymount (San Pedro Campus)	
No. of Phases			4			4			4			4				4
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0	NB--	3	SB--	0
	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3	EB--	3	WB--	3
ATSAC-1 or ATSAC+ATCS-2?				2				2				2				2				2
Override Capacity				0				0				0				0				0

	MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	119	1	119	0	119	119	0	138	1	138	0	138	1	138	0	138	1	138
	Left-Through		0							0				0				0	
	Through	1049	2	525	0	1049	525	0	1207	2	604	0	1207	2	604	0	1207	2	604
	Through-Right		0							0				0				0	
	Right	88	1	3	0	88	3	0	101	1	3	0	101	1	3	0	101	1	3
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	99	1	99	0	99	99	0	114	1	114	0	114	1	114	0	114	1	114
	Left-Through		0							0				0				0	
	Through	708	2	354	0	708	354	0	815	2	408	0	815	2	408	0	815	2	408
	Through-Right		0							0				0				0	
	Right	754	2	141	20	774	152	0	868	2	161	20	888	2	172	0	888	2	172
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	999	2	549	0	999	549	0	1150	2	633	0	1150	2	633	0	1150	2	633
	Left-Through		0							0				0				0	
	Through	352	2	176	0	352	176	0	405	2	203	0	405	2	203	0	405	2	203
	Through-Right		0							0				0				0	
	Right	339	1	220	0	339	220	0	390	1	252	0	390	1	252	0	390	1	252
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	85	1	85	0	85	85	0	98	1	98	0	98	1	98	0	98	1	98
	Left-Through		0							0				0				0	
	Through	140	1	140	0	140	140	0	161	1	161	0	161	1	161	0	161	1	161
	Through-Right		0							0				0				0	
	Right	224	1	125	0	224	125	0	257	1	143	0	257	1	143	0	257	1	143
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		North-South:		624	North-South:		624	North-South:			718	North-South:			718	North-South:			718
		East-West:		689	East-West:		689	East-West:			794	East-West:			794	East-West:			794
		SUM:		1313	SUM:		1313	SUM:			1512	SUM:			1512	SUM:			1512
VOLUME/CAPACITY (V/C) RATIO:				0.955			0.955				1.100				1.100				1.100
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.855			0.855				1.000				1.000				1.000
LEVEL OF SERVICE (LOS):				D			D				E				E				E

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δ*v/c* after mitigation: 0.000

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	US-101 SB Ramps	Year of Count:	2018	Ambient Growth (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
16	East-West Street:	Calabasas Road	Projection Year:	2032	Peak Hour:	AM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			3			3			3				3					3
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1			1			1				1					1
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		3	NB-- 0 SB--		3	NB-- 0 SB--		3		NB-- 0 SB--		3		NB-- 0 SB--		3	
		EB-- 0 WB--		3	EB-- 0 WB--		3	EB-- 0 WB--		3		EB-- 0 WB--		3		EB-- 0 WB--		3	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	589	2	**324**	26	615	**338**	0	678	2	**373**	26	704	2	**387**	0	704	2	**387**
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	37	1	0	0	37	0	0	43	1	0	0	43	1	0	0	43	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	132	2	**73**	0	132	**73**	0	152	2	**84**	0	152	2	**84**	0	152	2	**84**
	Left-Through		0							0				0				0	
	Through	408	2	204	0	408	204	0	469	2	235	0	469	2	235	0	469	2	235
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	1157	2	**579**	0	1157	**579**	0	1331	2	**666**	0	1331	2	**666**	0	1331	2	**666**
	Through-Right		0							0				0				0	
	Right	366	2	0	6	372	0	0	421	2	0	6	427	2	0	0	427	2	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		324	*North-South:*		338	*North-South:*			373	*North-South:*			387	*North-South:*			387
		East-West:		652	*East-West:*		652	*East-West:*			750	*East-West:*			750	*East-West:*			750
		SUM:		976	*SUM:*		990	*SUM:*			1123	*SUM:*			1137	*SUM:*			1137
	VOLUME/CAPACITY (*V/C*) RATIO:			0.685			0.695				0.788				0.798				0.798
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.585			0.595				0.688				0.698				0.698
	LEVEL OF SERVICE (LOS):			A			A				B				B				B

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.010

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.010

Significant impacted? NO

Δ*v/c* after mitigation: 0.010

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	US-101 SB Ramps	Year of Count:	2018	Ambient Growth: (%):	1.01	Conducted by:	KOA Corp	Date:	3/6/2017
16	East-West Street:	Calabasas Road	Projection Year:	2032	Peak Hour:	PM	Reviewed by:		Project:	Simi Valley Santa Susana Site EIR

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			3			3			3				3					3
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			1			1			1				1					1
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		3	NB-- 0 SB--		3	NB-- 0 SB--		3		NB-- 0 SB--		3		NB-- 0 SB--		3	
		EB-- 0 WB--		3	EB-- 0 WB--		3	EB-- 0 WB--		3		EB-- 0 WB--		3		EB-- 0 WB--		3	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	734	2	**404**	0	734	**404**	0	845	2	**465**	0	845	2	**465**	0	845	2	**465**
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	20	1	0	0	20	0	0	23	1	0	0	23	1	0	0	23	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	205	2	113	0	205	113	0	236	2	130	0	236	2	130	0	236	2	130
	Left-Through		0							0				0				0	
	Through	1181	2	**591**	0	1181	**591**	0	1360	2	**680**	0	1360	2	**680**	0	1360	2	**680**
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	0	0	**0**	0	0	**0**	0	0	0	**0**	0	0	0	**0**	0	0	0	**0**
	Left-Through		0							0				0				0	
	Through	659	2	330	0	659	330	0	759	2	380	0	759	2	380	0	759	2	380
	Through-Right		0							0				0				0	
	Right	228	2	0	20	248	0	0	262	2	0	20	282	2	0	0	282	2	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		404	*North-South:*		404	*North-South:*			465	*North-South:*			465	*North-South:*			465
		East-West:		591	*East-West:*		591	*East-West:*			680	*East-West:*			680	*East-West:*			680
		SUM:		995	*SUM:*		995	*SUM:*			1145	*SUM:*			1145	*SUM:*			1145
	VOLUME/CAPACITY *(V/C)* RATIO:			0.698			0.698				0.804				0.804				0.804
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.598			0.598				0.704				0.704				0.704
	LEVEL OF SERVICE (LOS):			A			A				C				C				C

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.000

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.000

Significant impacted? NO

Δ*v/c* after mitigation: 0.000

Fully mitigated? N/A

APPENDIX D
Intersection Level-of-Service Worksheets
Circular 212 Methodology – All Scenarios

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Scenario Report

Scenario:	Existing AM
Command:	Exist AM
Volume:	Weekday AM
Geometry:	existing AM
Impact Fee:	Default Impact Fee
Trip Generation:	none
Trip Distribution:	none
Paths:	Default Path
Routes:	Default Route
Configuration:	Existing

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 CA-27 & SR-118 WB Ramps	C	xxxxx	0.786	C	xxxxx	0.786	+ 0.000 V/C
# 3 Rocky Peak Rd & SR-118 WB Ramp	B	10.4	0.144	B	10.4	0.144	+ 0.000 D/V
# 4 Rocky Peak Rd & Santa Susana P	A	9.8	0.163	A	9.8	0.163	+ 0.000 D/V
# 6 Valley Cir Blvd & Woolsey Cany	E	38.9	0.997	E	38.9	0.997	+ 0.000 V/C
# 13 CA-27 & US-101 NB Off Ramp	F	241.6	1.456	F	241.6	1.456	+ 0.000 D/V

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Base Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.786
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 106 Level Of Service: C

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	433	50	0	0	173	28	0	0	0	1420	0	31
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	433	50	0	0	173	28	0	0	0	1420	0	31
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	433	50	0	0	173	28	0	0	0	1420	0	31
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	433	50	0	0	173	28	0	0	0	1420	0	31
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	476	50	0	0	173	28	0	0	0	1562	0	31
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.72	0.28	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	2850	1425	0	0	2453	397	0	0	0	2850	0	1425
Capacity Analysis Module:												
Vol/Sat:	0.17	0.04	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.55	0.00	0.02
Crit Volume:	238				101			0		781		
Crit Moves:	****				****					****		

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.6 Worst Case Level Of Service: B[10.4]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T - R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign		
Rights:	Include				Include				Include				Include		
Lanes:	0 1	0	0	0	0 0	0	1	0	0 0	0	0	0	1	0	0 1 0
Volume Module:															
Base Vol:	96	2	0	0	5	3	0	0	0	0	0	0	109	0	7
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	96	2	0	0	5	3	0	0	0	0	0	0	109	0	7
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	96	2	0	0	5	3	0	0	0	0	0	0	109	0	7
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	96	2	0	0	5	3	0	0	0	0	0	0	109	0	7
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	6.4	6.5	6.2
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	3.5	4.0	3.3
Capacity Module:															
Cnflict Vol:	8	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	201	202	2
Potent Cap.:	1625	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	793	698	1088
Move Cap.:	1625	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	755	654	1088
Volume/Cap:	0.06	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.14	0.00	0.01
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	0.5	xxxx	xxxxx
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	10.6	xxxx	xxxxx
LOS by Move:	A	*	*	*	*	*	*	*	*	*	*	*	B	*	*
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR - RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxx	1088
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	xxxx	0.0
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	xxxxx	xxxxx	xxxx	xxxx	xxxx	8.3
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	*	*	*	A
ApproachDel:	xxxxxx			xxxxxx			xxxxxx						10.4		
ApproachLOS:	*			*			*						B		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 7.0 Worst Case Level Of Service: A[9.8]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	26	0	170	152	31	0	0	14	45
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	0	0	0	26	0	170	152	31	0	0	14	45
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	0	0	0	26	0	170	152	31	0	0	14	45
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	26	0	170	152	31	0	0	14	45
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	372	372	37	59	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	633	562	1042	1558	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	581	502	1042	1558	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.04	0.00	0.16	0.10	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	943	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.8	xxxxx	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	9.8	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			9.8			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec):	100	Critical Vol./Cap.(X):	0.997
Loss Time (sec):	0	Average Delay (sec/veh):	38.9
Optimal Cycle:	0	Level Of Service:	E

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	35	448	0	0	651	20	41	0	115	0	0	0
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	35	448	0	0	651	20	41	0	115	0	0	0
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	35	448	0	0	651	20	41	0	115	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	35	448	0	0	651	20	41	0	115	0	0	0
PCE Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
MLF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
FinalVolume:	35	448	0	0	651	20	41	0	115	0	0	0
Saturation Flow Module:												
Adjustment:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Lanes:	0.07 0.93	0.00		0.00 1.00	1.00		1.00 0.00	1.00		0.00 0.00	0.00	
Final Sat.:	46	584	0	0	653	742	461	0	543	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.77 0.77	xxxx	xxxx	1.00	0.03	0.09	xxxx	0.21	xxxx	xxxx	xxxx	
Crit Moves:	****			****				****				
Delay/Veh:	24.7 24.7	0.0	0.0	57.2	7.6	11.0	0.0	10.8	0.0	0.0	0.0	
Delay Adj:	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	24.7 24.7	0.0	0.0	57.2	7.6	11.0	0.0	10.8	0.0	0.0	0.0	
LOS by Move:	C	C	*	*	F	A	B	*	B	*	*	*
ApproachDel:	24.7			55.8			10.8			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	24.7			55.8			10.8			xxxxxx		
LOS by Appr:	C			F			B			*		
AllWayAvgQ:	2.8	2.8	2.8	0.0	8.9	0.0	0.1	0.0	0.2	0.0	0.0	0.0

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 50.2 Worst Case Level Of Service: F[241.6]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3	0	0	0 0 4	0	0	0 0 0	0	1	0 0 0	0	2
Volume Module:												
Base Vol:	0 1830		0	0 1609		0	0	0	710	0	0	644
Growth Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0 1830		0	0 1609		0	0	0	710	0	0	644
User Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 1830		0	0 1609		0	0	0	710	0	0	644
Reduct Vol:	0 0		0	0 0		0	0	0	0	0	0	0
FinalVolume:	0 1830		0	0 1609		0	0	0	710	0	0	644
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9		
FollowUpTim:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3		
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	402	xxxx	xxxx	610		
Potent Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	603	xxxx	xxxx	442		
Move Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	603	xxxx	xxxx	442		
Volume/Cap:	xxxx xxxx	xxxx	xxxx	xxxx xxxx	xxxx	xxxx	1.18	xxxx	xxxx	1.46		
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	24.3	xxxx	xxxx	19.0		
Control Del:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	119.6	xxxxx	xxxx	241.6		
LOS by Move:	* *	*	*	* *	*	*	F	*	*	F		
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
SharedQueue:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	* *	*	*	* *	*	*	*	*	*	*	*	*
ApproachDel:	xxxxxx		xxxxxx			119.6			241.6			
ApproachLOS:	*		*			F			F			

Note: Queue reported is the number of cars per lane.

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Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Scenario Report

Scenario:	Existing PM
Command:	Exist PM
Volume:	Weekday PM
Geometry:	existing PM
Impact Fee:	Default Impact Fee
Trip Generation:	none
Trip Distribution:	none
Paths:	Default Path
Routes:	Default Route
Configuration:	Existing

Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Impact Analysis Report
Level Of Service

Intersection	Base LOS	Base Del/ Veh	Base V/ C	Future LOS	Future Del/ Veh	Future V/ C	Change in
# 1 CA-27 & SR-118 WB Ramps	D	xxxxx	0.850	D	xxxxx	0.850	+ 0.000 V/C
# 3 Rocky Peak Rd & SR-118 WB Ramp	B	10.5	0.118	B	10.5	0.118	+ 0.000 D/V
# 4 Rocky Peak Rd & Santa Susana P	A	9.6	0.113	A	9.6	0.113	+ 0.000 D/V
# 6 Valley Cir Blvd & Woolsey Cany	D	30.0	0.932	D	30.0	0.932	+ 0.000 V/C
# 13 CA-27 & US-101 NB Off Ramp	F	429.3	1.871	F	429.3	1.871	+ 0.000 D/V

Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Base Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.850
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 152 Level Of Service: D

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	968	77	0	0	106	21	0	0	0	1118	1	93
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	968	77	0	0	106	21	0	0	0	1118	1	93
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	968	77	0	0	106	21	0	0	0	1118	1	93
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	968	77	0	0	106	21	0	0	0	1118	1	93
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	1065	77	0	0	106	21	0	0	0	1230	1	93
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.67	0.33	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	2850	1425	0	0	2379	471	0	0	0	2848	2	1425
Capacity Analysis Module:												
Vol/Sat:	0.37	0.05	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.43	0.43	0.07
Crit Volume:	532					64		0		615		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.2 Worst Case Level Of Service: B[10.5]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T - R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign		
Rights:	Include				Include				Include				Include		
Lanes:	0	1 0	0	0	0	0	0	1 0	0	0	0	0 0	1	0	0 1 0
Volume Module:															
Base Vol:	107	2	0	0	4	8	0	0	0	0	0	0	86	0	4
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	107	2	0	0	4	8	0	0	0	0	0	0	86	0	4
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	107	2	0	0	4	8	0	0	0	0	0	0	86	0	4
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	107	2	0	0	4	8	0	0	0	0	0	0	86	0	4
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx				6.4	6.5	6.2
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx				3.5	4.0	3.3
Capacity Module:															
Cnflict Vol:	12	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx				224	228	2
Potent Cap.:	1620	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx				769	675	1088
Move Cap.:	1620	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx				727	628	1088
Volume/Cap:	0.07	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx				0.12	0.00	0.00
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx				0.4	xxxx	xxxxx
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx				10.6	xxxx	xxxxx
LOS by Move:	A	*	*	*	*	*	*	*	*				B	*	*
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR - RT
Shared Cap.:	xxxx	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxx	1088
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx				0.0
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx				8.3
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*				A
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			10.5					
ApproachLOS:	*			*			*			B					

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 5.7 Worst Case Level Of Service: A[9.6]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	14	0	111	142	29	0	0	54	53
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	0	0	0	14	0	111	142	29	0	0	54	53
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	0	0	0	14	0	111	142	29	0	0	54	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	14	0	111	142	29	0	0	54	53
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	394	394	81	107	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	615	546	985	1497	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	566	490	985	1497	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.02	0.00	0.11	0.09	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	910	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.5	xxxxx	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	9.6	xxxxx	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			9.6			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec):	100	Critical Vol./Cap.(X):	0.932
Loss Time (sec):	0	Average Delay (sec/veh):	30.0
Optimal Cycle:	0	Level Of Service:	D

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	98	585	0	0	228	32	31	0	55	0	0	0
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	98	585	0	0	228	32	31	0	55	0	0	0
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	98	585	0	0	228	32	31	0	55	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	98	585	0	0	228	32	31	0	55	0	0	0
PCE Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
MLF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
FinalVolume:	98	585	0	0	228	32	31	0	55	0	0	0
Saturation Flow Module:												
Adjustment:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Lanes:	0.14 0.86	0.00		0.00 1.00	1.00		1.00 0.00	1.00		0.00 0.00	0.00	
Final Sat.:	105	628	0	0	667	766	492	0	586	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.93 0.93	xxxx	xxxx	0.34	0.04	0.06	xxxx	0.09	xxxx	xxxx	xxxx	
Crit Moves:	****			****				****				
Delay/Veh:	40.1 40.1	0.0	0.0	10.7	7.5	10.2	0.0	9.2	0.0	0.0	0.0	
Delay Adj:	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
AdjDel/Veh:	40.1 40.1	0.0	0.0	10.7	7.5	10.2	0.0	9.2	0.0	0.0	0.0	
LOS by Move:	E	E	*	*	B	A	B	*	A	*	*	*
ApproachDel:	40.1			10.3			9.5			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	40.1			10.3			9.5			xxxxxx		
LOS by Appr:	E			B			A			*		
AllWayAvgQ:	6.6	6.6	6.6	0.0	0.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 78.5 Worst Case Level Of Service: F[429.3]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3	0	0	0 0 4	0	0	0 0 0	0	1	0 0 0	0	2
Volume Module:												
Base Vol:	0 2364		0	0 1870		0	0	0	777	0	0	633
Growth Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0 2364		0	0 1870		0	0	0	777	0	0	633
User Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 2364		0	0 1870		0	0	0	777	0	0	633
Reduct Vol:	0 0		0	0 0		0	0	0	0	0	0	0
FinalVolume:	0 2364		0	0 1870		0	0	0	777	0	0	633
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9		
FollowUpTim:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3		
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	468	xxxx	xxxx	788		
Potent Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	547	xxxx	xxxx	338		
Move Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	547	xxxx	xxxx	338		
Volume/Cap:	xxxx xxxx	xxxx	xxxx	xxxx xxxx	xxxx	xxxx	1.42	xxxx	xxxx	1.87		
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	36.6	xxxx	xxxx	23.5		
Control Del:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	220.3	xxxxx	xxxx	429.3		
LOS by Move:	* *	*	*	* *	*	*	F	*	*	F		
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxx	xxxxx	xxxx	xxxx xxxx	xxxxx	xxxx	xxxx xxxx	xxxxx	
SharedQueue:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxx	xxxxx	xxxxx	xxxx xxxx	xxxxx	xxxxx	xxxx xxxx	xxxxx	
Shrd ConDel:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxx	xxxxx	xxxxx	xxxx xxxx	xxxxx	xxxxx	xxxx xxxx	xxxxx	
Shared LOS:	* *	*	*	* *	*	*	* *	*	*	* *	*	
ApproachDel:	xxxxxx		xxxxxx			220.3			429.3			
ApproachLOS:	*		*			F			F			

Note: Queue reported is the number of cars per lane.

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Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018
AM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Base Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.809
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 120 Level Of Service: D

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	446	52	0	0	178	29	0	0	0	1463	0	32
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	446	52	0	0	178	29	0	0	0	1463	0	32
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	446	52	0	0	178	29	0	0	0	1463	0	32
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	446	52	0	0	178	29	0	0	0	1463	0	32
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	491	52	0	0	178	29	0	0	0	1609	0	32
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.72	0.28	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	2850	1425	0	0	2451	399	0	0	0	2850	0	1425
Capacity Analysis Module:												
Vol/Sat:	0.17	0.04	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.56	0.00	0.02
Crit Volume:	245					104		0		805		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.7 Worst Case Level Of Service: B[10.5]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T - R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign		
Rights:	Include				Include				Include				Include		
Lanes:	0 1	0	0	0	0	0	0	1 0	0	0	0	0 0	1	0	0 1 0
Volume Module:															
Base Vol:	99	2	0		0	5	3		0	0	0		112	0	7
Growth Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
Initial Bse:	99	2	0		0	5	3		0	0	0		112	0	7
User Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00		1.00	1.00	1.00
PHF Volume:	99	2	0		0	5	3		0	0	0		112	0	7
Reduct Vol:	0	0	0		0	0	0		0	0	0		0	0	0
FinalVolume:	99	2	0		0	5	3		0	0	0		112	0	7
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxx	xxxxx			6.4	6.5	6.2
FollowUpTim:	2.2	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxx	xxxxx			3.5	4.0	3.3
Capacity Module:															
Cnflict Vol:	8	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxxx			207	208	2
Potent Cap.:	1625	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxxx			786	692	1088
Move Cap.:	1625	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxxx			748	648	1088
Volume/Cap:	0.06	xxxx	xxxx		xxxx	xxxx	xxxx		xxxx	xxxx			0.15	0.00	0.01
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxx			0.5	xxxx	xxxxx
Control Del:	7.4	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxxx	xxxx			10.7	xxxx	xxxxx
LOS by Move:	A	*			*	*			*	*			B	*	*
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR - RT
Shared Cap.:	xxxx	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxx	xxxxx		xxxx	xxxx	1088
SharedQueue:	0.2	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxxx	xxxx	0.0
Shrd ConDel:	7.4	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxxx	xxxx	xxxxx		xxxxx	xxxx	8.3
Shared LOS:	A	*			*	*			*	*			*	*	A
ApproachDel:	xxxxxx				xxxxxx				xxxxxx				10.5		
ApproachLOS:	*				*				*				B		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
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Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 7.1 Worst Case Level Of Service: A[9.9]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	27	0	175	157	32	0	0	14	46
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	0	0	0	27	0	175	157	32	0	0	14	46
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	0	0	0	27	0	175	157	32	0	0	14	46
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	27	0	175	157	32	0	0	14	46
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	383	383	37	60	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	624	553	1041	1556	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	571	492	1041	1556	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.05	0.00	0.17	0.10	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	938	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.8	xxxxx	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	9.9	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			9.9			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
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Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec):	100	Critical Vol./Cap.(X):	1.034
Loss Time (sec):	0	Average Delay (sec/veh):	44.7
Optimal Cycle:	0	Level Of Service:	E

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	36	461	0	0	671	21	42	0	118	0	0	0
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	36	461	0	0	671	21	42	0	118	0	0	0
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	36	461	0	0	671	21	42	0	118	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	36	461	0	0	671	21	42	0	118	0	0	0
PCE Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
MLF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
FinalVolume:	36	461	0	0	671	21	42	0	118	0	0	0
Saturation Flow Module:												
Adjustment:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Lanes:	0.07 0.93	0.00		0.00 1.00	1.00		1.00 0.00	1.00		0.00 0.00	0.00	
Final Sat.:	45	583	0	0	649	738	459	0	540	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.79	0.79	xxxx	xxxx	1.03	0.03	0.09	xxxx	0.22	xxxx	xxxx	xxxx
Crit Moves:		****			****				****			
Delay/Veh:	26.7	26.7	0.0	0.0	67.3	7.7	11.1	0.0	10.9	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	26.7	26.7	0.0	0.0	67.3	7.7	11.1	0.0	10.9	0.0	0.0	0.0
LOS by Move:	D	D	*	*	F	A	B	*	B	*	*	*
ApproachDel:	26.7			65.5			10.9			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	26.7			65.5			10.9			xxxxxx		
LOS by Appr:	D			F			B			*		
AllWayAvgQ:	3.1	3.1	3.1	0.0	10.6	0.0	0.1	0.0	0.3	0.0	0.0	0.0

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
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Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 58.7 Worst Case Level Of Service: F[279.5]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3	0	0	0 0 4	0	0	0 0 0	0	1	0 0 0	0	2
Volume Module:												
Base Vol:	0 1885	0	0	0 1657	0	0	0	0	732	0	0	664
Growth Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0 1885	0	0	0 1657	0	0	0	0	732	0	0	664
User Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 1885	0	0	0 1657	0	0	0	0	732	0	0	664
Reduct Vol:	0 0	0	0	0 0	0	0	0	0	0	0	0	0
FinalVolume:	0 1885	0	0	0 1657	0	0	0	0	732	0	0	664
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9		
FollowUpTim:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3		
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	414	xxxx	xxxx	628		
Potent Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	593	xxxx	xxxx	430		
Move Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	593	xxxx	xxxx	430		
Volume/Cap:	xxxx xxxx	xxxx	xxxx	xxxx xxxx	xxxx	xxxx	1.24	xxxx	xxxx	1.54		
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	27.4	xxxx	xxxx	20.6		
Control Del:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	142.5	xxxxx	xxxx	279.5		
LOS by Move:	* *	*	*	* *	*	*	F	*	*	F		
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
SharedQueue:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Shrd ConDel:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Shared LOS:	* *	*	*	* *	*	*	*	*	*	*		
ApproachDel:	xxxxxx		xxxxxx			142.5			279.5			
ApproachLOS:	*		*			F			F			

Note: Queue reported is the number of cars per lane.

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Simi Valley Santa Susana Site EIR
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Level Of Service Computation Report
Circular 212 Planning Method (Base Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.876
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: D

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	997	79	0	0	109	22	0	0	0	1152	1	96
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	997	79	0	0	109	22	0	0	0	1152	1	96
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	997	79	0	0	109	22	0	0	0	1152	1	96
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	997	79	0	0	109	22	0	0	0	1152	1	96
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	1097	79	0	0	109	22	0	0	0	1267	1	96
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.66	0.34	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	2850	1425	0	0	2371	479	0	0	0	2848	2	1425
Capacity Analysis Module:												
Vol/Sat:	0.38	0.06	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.44	0.44	0.07
Crit Volume:	548					66			0	634		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
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Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.3 Worst Case Level Of Service: B[10.6]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T - R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign		
Rights:	Include				Include				Include				Include		
Lanes:	0	1 0	0	0	0	0	0	1 0	0	0	0	0 0	1	0	0 1 0
Volume Module:															
Base Vol:	110	2	0	0	4	8	0	0	0	89	0	4			
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Initial Bse:	110	2	0	0	4	8	0	0	0	89	0	4			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	110	2	0	0	4	8	0	0	0	89	0	4			
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
FinalVolume:	110	2	0	0	4	8	0	0	0	89	0	4			
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2			
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3			
Capacity Module:															
Cnflict Vol:	12	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	230	234	2			
Potent Cap.:	1620	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	763	670	1088			
Move Cap.:	1620	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	720	621	1088			
Volume/Cap:	0.07	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.12	0.00	0.00			
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx			
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	10.7	xxxx	xxxxx			
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*			
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR - RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088			
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0			
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3			
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A			
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			10.6					
ApproachLOS:	*			*			*			B					

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 5.7 Worst Case Level Of Service: A[9.6]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	14	0	114	146	30	0	0	56	55
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	0	0	0	14	0	114	146	30	0	0	56	55
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	0	0	0	14	0	114	146	30	0	0	56	55
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	14	0	114	146	30	0	0	56	55
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	406	406	84	111	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	605	538	981	1492	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	556	480	981	1492	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.03	0.00	0.12	0.10	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	906	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.5	xxxxx	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	9.6	xxxxx	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			9.6			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Base Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec): 100 Critical Vol./Cap.(X): 0.963
Loss Time (sec): 0 Average Delay (sec/veh): 34.3
Optimal Cycle: 0 Level Of Service: D

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	101	603	0	0	235	33	32	0	57	0	0	0
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	101	603	0	0	235	33	32	0	57	0	0	0
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	101	603	0	0	235	33	32	0	57	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	101	603	0	0	235	33	32	0	57	0	0	0
PCE Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
MLF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
FinalVolume:	101	603	0	0	235	33	32	0	57	0	0	0
Saturation Flow Module:												
Adjustment:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Lanes:	0.14 0.86	0.00		0.00 1.00	1.00		1.00 0.00	1.00		0.00 0.00	0.00	
Final Sat.:	105	626	0	0	666	765	491	0	585	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.96 0.96	xxxx		xxxx 0.35	0.04		0.07 xxxx	0.10		xxxx xxxx	xxxx	
Crit Moves:	****			****				****				
Delay/Veh:	46.5 46.5	0.0		0.0 10.9	7.6		10.3 0.0	9.3		0.0 0.0	0.0	
Delay Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
AdjDel/Veh:	46.5 46.5	0.0		0.0 10.9	7.6		10.3 0.0	9.3		0.0 0.0	0.0	
LOS by Move:	E	E	*	*	B	A	B	*	A	*	*	*
ApproachDel:	46.5			10.5			9.6			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	46.5			10.5			9.6			xxxxxx		
LOS by Appr:	E			B			A			*		
AllWayAvgQ:	7.8	7.8	7.8	0.0	0.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Base Volume Alternative)

****

Intersection #13 CA-27 & US-101 NB Off Ramp

****

Average Delay (sec/veh): 89.2 Worst Case Level Of Service: F[486.0]

****

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3	0	0	0 0 4	0	0	0 0 0	0	1	0 0 0	0	2
Volume Module:												
Base Vol:	0 2435	0	0	0 1926	0	0	0	0	800	0	0	652
Growth Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0 2435	0	0	0 1926	0	0	0	0	800	0	0	652
User Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00	1.00	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 2435	0	0	0 1926	0	0	0	0	800	0	0	652
Reduct Vol:	0 0	0	0	0 0	0	0	0	0	0	0	0	0
FinalVolume:	0 2435	0	0	0 1926	0	0	0	0	800	0	0	652
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9		
FollowUpTim:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3		
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	482	xxxx	xxxx	812		
Potent Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	536	xxxx	xxxx	326		
Move Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	536	xxxx	xxxx	326		
Volume/Cap:	xxxx xxxx	xxxx	xxxx	xxxx xxxx	xxxx	xxxx	1.49	xxxx	xxxx	2.00		
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	40.4	xxxx	xxxx	25.2		
Control Del:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	251.9	xxxxx	xxxx	486.0		
LOS by Move:	* *	*	*	* *	*	*	F	*	*	F		
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
SharedQueue:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Shrd ConDel:	xxxxx xxxx	xxxxx	xxxxx	xxxx xxxxx	xxxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx		
Shared LOS:	* *	*	*	* *	*	*	*	*	*	*		
ApproachDel:	xxxxxx		xxxxxx			251.9			486.0			
ApproachLOS:	*		*			F			F			

****

Note: Queue reported is the number of cars per lane.

****

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Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
AM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.827
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 132 Level Of Service: D

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	446	52	0	0	178	29	0	0	0	1463	0	32
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	446	52	0	0	178	29	0	0	0	1463	0	32
Added Vol:	0	0	0	0	0	0	0	0	0	46	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	446	52	0	0	178	29	0	0	0	1509	0	32
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	446	52	0	0	178	29	0	0	0	1509	0	32
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	446	52	0	0	178	29	0	0	0	1509	0	32
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	491	52	0	0	178	29	0	0	0	1660	0	32
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.72	0.28	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	2850	1425	0	0	2451	399	0	0	0	2850	0	1425
Capacity Analysis Module:												
Vol/Sat:	0.17	0.04	0.00	0.00	0.07	0.07	0.00	0.00	0.00	0.58	0.00	0.02
Crit Volume:	245					104		0		830		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.8 Worst Case Level Of Service: B[10.6]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T - R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign		
Rights:	Include				Include				Include				Include		
Lanes:	0	1 0	0	0	0	0	0	1 0	0	0	0	0 0	1	0	0 1 0
Volume Module:															
Base Vol:	99	2	0	0	5	3	0	0	0	112	0	7			
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Initial Bse:	99	2	0	0	5	3	0	0	0	112	0	7			
Added Vol:	0	0	0	0	0	0	0	0	0	11	0	0			
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0			
Initial Fut:	99	2	0	0	5	3	0	0	0	123	0	7			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	99	2	0	0	5	3	0	0	0	123	0	7			
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
FinalVolume:	99	2	0	0	5	3	0	0	0	123	0	7			
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2			
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3			
Capacity Module:															
Cnflict Vol:	8	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	207	208	2			
Potent Cap.:	1625	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	786	692	1088			
Move Cap.:	1625	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	748	648	1088			
Volume/Cap:	0.06	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.16	0.00	0.01			
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.6	xxxx	xxxxx			
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	10.8	xxxx	xxxxx			
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*			
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR - RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088			
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0			
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3			
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A			
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			10.6					
ApproachLOS:	*			*			*			B					

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 7.2 Worst Case Level Of Service: A[10.0]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	27	0	175	157	32	0	0	14	46
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	0	0	27	0	175	157	32	0	0	14	46
Added Vol:	0	0	0	0	0	16	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	27	0	191	157	32	0	0	14	46
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	27	0	191	157	32	0	0	14	46
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	27	0	191	157	32	0	0	14	46
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	383	383	37	60	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	624	553	1041	1556	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	571	492	1041	1556	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.05	0.00	0.18	0.10	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	945	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.9	xxxxx	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	10.0	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			10.0			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec):	100	Critical Vol./Cap.(X):	1.082	
Loss Time (sec):	0	Average Delay (sec/veh):	58.0	
Optimal Cycle:	0	Level Of Service:	F	

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	36	461	0	0	671	21	42	0	118	0	0	0
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	36	461	0	0	671	21	42	0	118	0	0	0
Added Vol:	93	0	0	0	0	62	3	0	27	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	129	461	0	0	671	83	45	0	145	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	129	461	0	0	671	83	45	0	145	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	129	461	0	0	671	83	45	0	145	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	129	461	0	0	671	83	45	0	145	0	0	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.22	0.78	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	134	479	0	0	620	702	458	0	538	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.96	0.96	xxxx	xxxx	1.08	0.12	0.10	xxxx	0.27	xxxx	xxxx	xxxx
Crit Moves:		****			****				****			
Delay/Veh:	51.3	51.3	0.0	0.0	83.1	8.5	11.4	0.0	11.7	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	51.3	51.3	0.0	0.0	83.1	8.5	11.4	0.0	11.7	0.0	0.0	0.0
LOS by Move:	F	F	*	*	F	A	B	*	B	*	*	*
ApproachDel:	51.3			74.9			11.7			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	51.3			74.9			11.7			xxxxxx		
LOS by Appr:	F			F			B			*		
AllWayAvgQ:	7.2	7.2	7.2	0.0	12.9	0.1	0.1	0.0	0.4	0.0	0.0	0.0

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
AM Peak Hour

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 61.7 Worst Case Level Of Service: F[295.5]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3 0 0			0 0 4 0 0			0 0 0 0 1			0 0 0 0 2		
Volume Module:												
Base Vol:	0	1885	0	0	1657	0	0	0	732	0	0	664
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0	1885	0	0	1657	0	0	0	732	0	0	664
Added Vol:	0	0	0	0	3	0	0	0	0	0	0	16
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	1885	0	0	1660	0	0	0	732	0	0	680
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	1885	0	0	1660	0	0	0	732	0	0	680
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	1885	0	0	1660	0	0	0	732	0	0	680
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	415	xxxx	xxxx	628
Potent Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	592	xxxx	xxxx	430
Move Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	592	xxxx	xxxx	430
Volume/Cap:	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	1.24	xxxx	xxxx	1.58
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	27.5	xxxx	xxxx	21.5
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	143.1	xxxxx	xxxx	295.5
LOS by Move:	*	*	*	*	*	*	*	*	F	*	*	F
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	xxxxxx			xxxxxx			143.1			295.5		
ApproachLOS:	*			*			F			F		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
PM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.888
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: D

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	997	79	0	0	109	22	0	0	0	1152	1	96
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	997	79	0	0	109	22	0	0	0	1152	1	96
Added Vol:	12	0	0	0	0	0	0	0	0	21	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1009	79	0	0	109	22	0	0	0	1173	1	96
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	1009	79	0	0	109	22	0	0	0	1173	1	96
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1009	79	0	0	109	22	0	0	0	1173	1	96
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	1110	79	0	0	109	22	0	0	0	1290	1	96
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.66	0.34	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	2850	1425	0	0	2371	479	0	0	0	2848	2	1425
Capacity Analysis Module:												
Vol/Sat:	0.39	0.06	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.45	0.45	0.07
Crit Volume:	555					66		0		646		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.3 Worst Case Level Of Service: B[10.7]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	T	R	L	T	R	L	T	R	L	T	R			
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign					
Rights:	Include			Include			Include			Include					
Lanes:	0 1	0	0 0	0	0 0	0 1	0	0	0 0	0	1	0			
Volume Module:															
Base Vol:	110	2	0	0	4	8	0	0	0	89	0	4			
Growth Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Initial Bse:	110	2	0	0	4	8	0	0	0	89	0	4			
Added Vol:	5	0	0	0	0	0	0	0	0	0	0	0			
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0			
Initial Fut:	115	2	0	0	4	8	0	0	0	89	0	4			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	115	2	0	0	4	8	0	0	0	89	0	4			
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
FinalVolume:	115	2	0	0	4	8	0	0	0	89	0	4			
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2			
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3			
Capacity Module:															
Cnflict Vol:	12	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	240	244	2			
Potent Cap.:	1620	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	753	661	1088			
Move Cap.:	1620	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	709	611	1088			
Volume/Cap:	0.07	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.13	0.00	0.00			
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx			
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	10.8	xxxx	xxxxx			
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*			
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT			
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088			
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0			
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3			
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A			
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			10.7					
ApproachLOS:	*			*			*			B					

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 5.8 Worst Case Level Of Service: A[9.7]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	14	0	114	146	30	0	0	56	55
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	0	0	0	14	0	114	146	30	0	0	56	55
Added Vol:	0	0	0	0	0	0	16	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	14	0	114	162	30	0	0	56	55
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	0	0	0	14	0	114	162	30	0	0	56	55
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	14	0	114	162	30	0	0	56	55
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	438	438	84	111	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	580	516	981	1492	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	527	454	981	1492	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.03	0.00	0.12	0.11	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	897	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.5	xxxxx	0.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	9.7	xxxxx	7.7	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			9.7			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec): 100 Critical Vol./Cap.(X): 1.106
Loss Time (sec): 0 Average Delay (sec/veh): 57.3
Optimal Cycle: 0 Level Of Service: F

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	101	603	0	0	235	33	32	0	57	0	0	0
Growth Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Initial Bse:	101	603	0	0	235	33	32	0	57	0	0	0
Added Vol:	27	0	0	0	0	3	62	0	93	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	128	603	0	0	235	36	94	0	150	0	0	0
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	128	603	0	0	235	36	94	0	150	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	128	603	0	0	235	36	94	0	150	0	0	0
PCE Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
MLF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
FinalVolume:	128	603	0	0	235	36	94	0	150	0	0	0
Saturation Flow Module:												
Adjustment:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Lanes:	0.18	0.82	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	116	545	0	0	595	672	491	0	585	0	0	0
Capacity Analysis Module:												
Vol/Sat:	1.11	1.11	xxxx	xxxx	0.40	0.05	0.19	xxxx	0.26	xxxx	xxxx	xxxx
Crit Moves:		****			****				****			
Delay/Veh:	89.6	89.6	0.0	0.0	12.4	8.3	11.6	0.0	10.8	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	89.6	89.6	0.0	0.0	12.4	8.3	11.6	0.0	10.8	0.0	0.0	0.0
LOS by Move:	F	F	*	*	B	A	B	*	B	*	*	*
ApproachDel:	89.6			11.9			11.1			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	89.6			11.9			11.1			xxxxxx		
LOS by Appr:	F			B			B			*		
AllWayAvgQ:	14.9	14.9	14.9	0.0	0.6	0.1	0.2	0.0	0.3	0.0	0.0	0.0

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
PM Peak Hour

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Start of Remediation Year 2018 + Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 90.1 Worst Case Level Of Service: F[490.1]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3 0 0			0 0 4 0 0			0 0 0 0 1			0 0 0 0 2		
Volume Module:												
Base Vol:	0 2435	0	0	1926	0	0	0	800	0	0	652	
Growth Adj:	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Initial Bse:	0 2435	0	0	1926	0	0	0	800	0	0	652	
Added Vol:	0 0	0	0	16	0	0	0	0	0	0	3	
PasserByVol:	0 0	0	0	0	0	0	0	0	0	0	0	
Initial Fut:	0 2435	0	0	1942	0	0	0	800	0	0	655	
User Adj:	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 2435	0	0	1942	0	0	0	800	0	0	655	
Reduct Vol:	0 0	0	0	0	0	0	0	0	0	0	0	
FinalVolume:	0 2435	0	0	1942	0	0	0	800	0	0	655	
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9	
FollowUpTim:	xxxxx xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3	
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	486	xxxx	xxxx	812	
Potent Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	533	xxxx	xxxx	326	
Move Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	533	xxxx	xxxx	326	
Volume/Cap:	xxxx xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	1.50	xxxx	xxxx	2.01	
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	40.7	xxxx	xxxx	25.4	
Control Del:	xxxxx xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	255.9	xxxxx	xxxx	490.1	
LOS by Move:	* *	*	*	*	*	*	*	F	*	*	F	
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	
SharedQueue:	xxxxx xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	
Shrd ConDel:	xxxxx xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	
Shared LOS:	* *	*	*	*	*	*	*	*	*	*	*	
ApproachDel:	xxxxxx		xxxxxx			255.9			490.1			
ApproachLOS:	*		*			F			F			

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
AM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.932
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: E

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2 0	1 0	0	0 0	1 1	0	0 0	0 0	0	1 1	0 0	1
Volume Module:												
Base Vol:	446	52	0	0	178	29	0	0	0	1463	0	32
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	513	60	0	0	205	33	0	0	0	1684	0	37
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	513	60	0	0	205	33	0	0	0	1684	0	37
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	513	60	0	0	205	33	0	0	0	1684	0	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	513	60	0	0	205	33	0	0	0	1684	0	37
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	565	60	0	0	205	33	0	0	0	1852	0	37
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.72	0.28	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	2850	1425	0	0	2451	399	0	0	0	2850	0	1425
Capacity Analysis Module:												
Vol/Sat:	0.20	0.04	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.65	0.00	0.03
Crit Volume:	282					119		0		926		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Future 2032 without Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 9.0 Worst Case Level Of Service: B[11.0]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	T	R	L	T	R	L	T	R	L	T	R			
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign					
Rights:	Include			Include			Include			Include					
Lanes:	0 1	0	0 0	0	0 0	0 1	0	0	0 0	0	1	0 0			
Volume Module:															
Base Vol:	99	2	0	0	5	3	0	0	0	112	0	7			
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15			
Initial Bse:	114	2	0	0	6	3	0	0	0	129	0	8			
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0			
Initial Fut:	114	2	0	0	6	3	0	0	0	129	0	8			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	114	2	0	0	6	3	0	0	0	129	0	8			
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
FinalVolume:	114	2	0	0	6	3	0	0	0	129	0	8			
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2			
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3			
Capacity Module:															
Cnflict Vol:	9	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	238	239	2			
Potent Cap.:	1624	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	755	665	1088			
Move Cap.:	1624	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	712	615	1088			
Volume/Cap:	0.07	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.18	0.00	0.01			
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.7	xxxx	xxxxx			
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.2	xxxx	xxxxx			
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*			
Movement:	LT - LTR		- RT	LT - LTR		- RT	LT - LTR		- RT	LT - LTR		- RT			
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088			
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0			
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3			
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A			
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			11.0					
ApproachLOS:	*			*			*			B					

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 7.3 Worst Case Level Of Service: B[10.3]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 0	0	0	0 0	1! 0	0	0 1	0	0 0	0	0 1	0
Volume Module:												
Base Vol:	0	0	0	27	0	175	157	32	0	0	14	46
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0	0	0	31	0	201	181	37	0	0	16	53
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	31	0	201	181	37	0	0	16	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	31	0	201	181	37	0	0	16	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	31	0	201	181	37	0	0	16	53
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	441	441	43	69	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	578	514	1034	1545	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	520	447	1034	1545	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.06	0.00	0.19	0.12	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	913	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	1.0	xxxxx	0.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	10.3	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	B	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			10.3			xxxxxx			xxxxxx		
ApproachLOS:	*			B			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec): 100 Critical Vol./Cap.(X): 1.233
Loss Time (sec): 0 Average Delay (sec/veh): 86.2
Optimal Cycle: 0 Level Of Service: F

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0	0 1	0	1	0	0 1	0	0 0	0
Volume Module:												
Base Vol:	36	461	0	0	671	21	42	0	118	0	0	0
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	41	531	0	0	772	24	48	0	136	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	41	531	0	0	772	24	48	0	136	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	41	531	0	0	772	24	48	0	136	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	41	531	0	0	772	24	48	0	136	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	41	531	0	0	772	24	48	0	136	0	0	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.07	0.93	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	45	574	0	0	626	709	459	0	541	0	0	0
Capacity Analysis Module:												
Vol/Sat:	0.92	0.92	xxxx	xxxx	1.23	0.03	0.11	xxxx	0.25	xxxx	xxxx	xxxx
Crit Moves:		****			****				****			
Delay/Veh:	43.6	43.6	0.0	0.0	138	7.9	11.4	0.0	11.4	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	43.6	43.6	0.0	0.0	138	7.9	11.4	0.0	11.4	0.0	0.0	0.0
LOS by Move:	E	E	*	*	F	A	B	*	B	*	*	*
ApproachDel:	43.6			134.0			11.4			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	43.6			134.0			11.4			xxxxxx		
LOS by Appr:	E			F			B			*		
AllWayAvgQ:	6.0	6.0	6.0	0.0	22.5	0.0	0.1	0.0	0.3	0.0	0.0	0.0

Simi Valley Santa Susana Site EIR
Future 2032 without Project
AM Peak Hour

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 109.5 Worst Case Level Of Service: F[504.6]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3 0 0			0 0 4 0 0			0 0 0 0 1			0 0 0 0 2		
Volume Module:												
Base Vol:	0	1885	0	0	1657	0	0	0	732	0	0	664
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0	2170	0	0	1907	0	0	0	843	0	0	764
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	2170	0	0	1907	0	0	0	843	0	0	764
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	2170	0	0	1907	0	0	0	843	0	0	764
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	2170	0	0	1907	0	0	0	843	0	0	764
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	477	xxxx	xxxx	723
Potent Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	540	xxxx	xxxx	373
Move Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	540	xxxx	xxxx	373
Volume/Cap:	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	1.56	xxxx	xxxx	2.05
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	44.9	xxxx	xxxx	29.3
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	281.2	xxxxx	xxxx	504.6
LOS by Move:	*	*	*	*	*	*	*	*	F	*	*	F
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	xxxxxx			xxxxxx			281.2			504.6		
ApproachLOS:	*			*			F			F		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
PM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 1.008
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	997	79	0	0	109	22	0	0	0	1152	1	96
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	1148	91	0	0	125	25	0	0	0	1326	1	110
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1148	91	0	0	125	25	0	0	0	1326	1	110
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	1148	91	0	0	125	25	0	0	0	1326	1	110
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1148	91	0	0	125	25	0	0	0	1326	1	110
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	1262	91	0	0	125	25	0	0	0	1459	1	110
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.66	0.34	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	2850	1425	0	0	2371	479	0	0	0	2848	2	1425
Capacity Analysis Module:												
Vol/Sat:	0.44	0.06	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.51	0.51	0.08
Crit Volume:	631					75		0		730		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Future 2032 without Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.5 Worst Case Level Of Service: B[11.1]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Lanes:	0	1 0	0	0	0	0 0	0	1 0	0	0 0	0	0 0	1	0 0	0	1 0
Volume Module:																
Base Vol:	110	2	0	0	4	8	0	0	0	89	0	4				
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15				
Initial Bse:	127	2	0	0	5	9	0	0	0	102	0	5				
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0				
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0				
Initial Fut:	127	2	0	0	5	9	0	0	0	102	0	5				
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
PHF Volume:	127	2	0	0	5	9	0	0	0	102	0	5				
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0				
FinalVolume:	127	2	0	0	5	9	0	0	0	102	0	5				
Critical Gap Module:																
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2				
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3				
Capacity Module:																
Cnflict Vol:	14	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	265	269	2				
Potent Cap.:	1618	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	729	640	1088				
Move Cap.:	1618	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	682	586	1088				
Volume/Cap:	0.08	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.15	0.00	0.00				
Level Of Service Module:																
2Way95thQ:	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.5	xxxx	xxxxx				
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.2	xxxx	xxxxx				
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*				
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088				
SharedQueue:	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0				
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3				
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A				
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			11.1						
ApproachLOS:	*			*			*			B						

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 5.8 Worst Case Level Of Service: A[9.9]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	14	0	114	146	30	0	0	56	55
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0	0	0	16	0	131	168	35	0	0	64	63
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	16	0	131	168	35	0	0	64	63
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	16	0	131	168	35	0	0	64	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	16	0	131	168	35	0	0	64	63
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	467	467	96	128	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	558	497	966	1471	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	504	434	966	1471	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.03	0.00	0.14	0.11	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	878	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.6	xxxxx	0.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	9.9	xxxxx	7.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			9.9			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec): 100 Critical Vol./Cap.(X): 1.131
Loss Time (sec): 0 Average Delay (sec/veh): 67.4
Optimal Cycle: 0 Level Of Service: F

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	101	603	0	0	235	33	32	0	57	0	0	0
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	116	694	0	0	270	38	37	0	66	0	0	0
Added Vol:	0	0	0	0	0	0	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	116	694	0	0	270	38	37	0	66	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	116	694	0	0	270	38	37	0	66	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	116	694	0	0	270	38	37	0	66	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	116	694	0	0	270	38	37	0	66	0	0	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.14	0.86	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	103	614	0	0	659	754	486	0	578	0	0	0
Capacity Analysis Module:												
Vol/Sat:	1.13	1.13	xxxx	xxxx	0.41	0.05	0.08	xxxx	0.11	xxxx	xxxx	xxxx
Crit Moves:	****				****				****			
Delay/Veh:	96.1	96.1	0.0	0.0	11.8	7.7	10.5	0.0	9.5	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	96.1	96.1	0.0	0.0	11.8	7.7	10.5	0.0	9.5	0.0	0.0	0.0
LOS by Move:	F	F	*	*	B	A	B	*	A	*	*	*
ApproachDel:	96.1			11.3			9.9			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	96.1			11.3			9.9			xxxxxx		
LOS by Appr:	F			B			A			*		
AllWayAvgQ:	17.5	17.5	17.5	0.0	0.7	0.1	0.1	0.0	0.1	0.0	0.0	0.0

Simi Valley Santa Susana Site EIR
Future 2032 without Project
PM Peak Hour

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 without Project
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 154.1 Worst Case Level Of Service: F[834.9]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3 0 0			0 0 4 0 0			0 0 0 0 1			0 0 0 0 2		
Volume Module:												
Base Vol:	0 2435	0		0 1926	0		0	0	800	0	0	652
Growth Adj:	1.15 1.15	1.15		1.15 1.15	1.15		1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0 2803	0		0 2217	0		0	0	921	0	0	750
Added Vol:	0 0	0		0 0	0		0	0	0	0	0	0
PasserByVol:	0 0	0		0 0	0		0	0	0	0	0	0
Initial Fut:	0 2803	0		0 2217	0		0	0	921	0	0	750
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 2803	0		0 2217	0		0	0	921	0	0	750
Reduct Vol:	0 0	0		0 0	0		0	0	0	0	0	0
FinalVolume:	0 2803	0		0 2217	0		0	0	921	0	0	750
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	6.9	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	3.3	xxxxx	xxxx	3.3
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	554	xxxx	xxxx	934
Potent Cap.:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	481	xxxx	xxxx	271
Move Cap.:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	481	xxxx	xxxx	271
Volume/Cap:	xxxx xxxx	xxxx		xxxx xxxx	xxxx		xxxx	xxxx	1.91	xxxx	xxxx	2.77
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	60.7	xxxx	xxxx	34.1
Control Del:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	439.1	xxxxx	xxxx	834.9
LOS by Move:	* *	*		* *	*		*	*	F	*	*	F
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	* *	*		* *	*		*	*	*	*	*	*
ApproachDel:	xxxxxx			xxxxxx			439.1			834.9		
ApproachLOS:	*			*			F			F		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
AM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 0.949
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: E

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	446	52	0	0	178	29	0	0	0	1463	0	32
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	513	60	0	0	205	33	0	0	0	1684	0	37
Added Vol:	0	0	0	0	0	0	0	0	0	46	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	513	60	0	0	205	33	0	0	0	1730	0	37
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	513	60	0	0	205	33	0	0	0	1730	0	37
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	513	60	0	0	205	33	0	0	0	1730	0	37
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	565	60	0	0	205	33	0	0	0	1903	0	37
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.72	0.28	0.00	0.00	0.00	2.00	0.00	1.00
Final Sat.:	2850	1425	0	0	2451	399	0	0	0	2850	0	1425
Capacity Analysis Module:												
Vol/Sat:	0.20	0.04	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.67	0.00	0.03
Crit Volume:	282					119		0		951		
Crit Moves:	****					****				****		

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 9.1 Worst Case Level Of Service: B[11.1]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound					
Movement:	L	T	R	L	T	R	L	T	R	L	T	R			
Control:	Uncontrolled			Uncontrolled			Stop Sign			Stop Sign					
Rights:	Include			Include			Include			Include					
Lanes:	0 1	0	0 0	0	0 0	0 1	0	0 0	0 0	1	0	0			
Volume Module:															
Base Vol:	99	2	0	0	5	3	0	0	0	112	0	7			
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15			
Initial Bse:	114	2	0	0	6	3	0	0	0	129	0	8			
Added Vol:	0	0	0	0	0	0	0	0	0	11	0	0			
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0			
Initial Fut:	114	2	0	0	6	3	0	0	0	140	0	8			
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
PHF Volume:	114	2	0	0	6	3	0	0	0	140	0	8			
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0			
FinalVolume:	114	2	0	0	6	3	0	0	0	140	0	8			
Critical Gap Module:															
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2			
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3			
Capacity Module:															
Cnflict Vol:	9	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	238	239	2			
Potent Cap.:	1624	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	755	665	1088			
Move Cap.:	1624	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	712	615	1088			
Volume/Cap:	0.07	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.20	0.00	0.01			
Level Of Service Module:															
2Way95thQ:	0.2	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.7	xxxx	xxxxx			
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.3	xxxx	xxxxx			
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*			
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT			
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088			
SharedQueue:	0.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0			
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3			
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A			
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			11.1					
ApproachLOS:	*			*			*			B					

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 7.4 Worst Case Level Of Service: B[10.4]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 0	0	0	0 0 1!	0	0	0 1 0	0	0	0 0 0	1	0
Volume Module:												
Base Vol:	0	0	0	27	0	175	157	32	0	0	14	46
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0	0	0	31	0	201	181	37	0	0	16	53
Added Vol:	0	0	0	0	0	16	0	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	31	0	217	181	37	0	0	16	53
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	0	0	31	0	217	181	37	0	0	16	53
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	31	0	217	181	37	0	0	16	53
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	441	441	43	69	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	578	514	1034	1545	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	520	447	1034	1545	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.06	0.00	0.21	0.12	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	920	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	1.1	xxxxx	0.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	10.4	xxxxx	7.6	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	B	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			10.4			xxxxxx			xxxxxx		
ApproachLOS:	*			B			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec): 100 Critical Vol./Cap.(X): 1.273
Loss Time (sec): 0 Average Delay (sec/veh): 105.1
Optimal Cycle: 0 Level Of Service: F

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0	0 0	1	0	1	0	0	0 1	0	0 0
Volume Module:												
Base Vol:	36	461	0	0	671	21	42	0	118	0	0	0
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	41	531	0	0	772	24	48	0	136	0	0	0
Added Vol:	93	0	0	0	0	62	3	0	27	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	134	531	0	0	772	86	51	0	163	0	0	0
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	134	531	0	0	772	86	51	0	163	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	134	531	0	0	772	86	51	0	163	0	0	0
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
FinalVolume:	134	531	0	0	772	86	51	0	163	0	0	0
Saturation Flow Module:												
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	0.20	0.80	0.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Final Sat.:	122	483	0	0	607	686	458	0	538	0	0	0
Capacity Analysis Module:												
Vol/Sat:	1.10	1.10	xxxx	xxxx	1.27	0.13	0.11	xxxx	0.30	xxxx	xxxx	xxxx
Crit Moves:	****				****				****			
Delay/Veh:	90.1	90.1	0.0	0.0	155	8.7	11.5	0.0	12.2	0.0	0.0	0.0
Delay Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AdjDel/Veh:	90.1	90.1	0.0	0.0	155	8.7	11.5	0.0	12.2	0.0	0.0	0.0
LOS by Move:	F	F	*	*	F	A	B	*	B	*	*	*
ApproachDel:	90.1			140.0			12.1			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	90.1			140.0			12.1			xxxxxx		
LOS by Appr:	F			F			B			*		
AllWayAvgQ:	13.6	13.6	13.6	0.0	24.6	0.1	0.1	0.0	0.4	0.0	0.0	0.0

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
AM Peak Hour

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
AM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 113.3 Worst Case Level Of Service: F[523.6]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3 0 0			0 0 4 0 0			0 0 0 0 1			0 0 0 0 2		
Volume Module:												
Base Vol:	0	1885	0	0	1657	0	0	0	732	0	0	664
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0	2170	0	0	1907	0	0	0	843	0	0	764
Added Vol:	0	0	0	0	3	0	0	0	0	0	0	16
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	2170	0	0	1910	0	0	0	843	0	0	780
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0	2170	0	0	1910	0	0	0	843	0	0	780
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	2170	0	0	1910	0	0	0	843	0	0	780
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	6.9	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	3.3	xxxxx	xxxx	3.3
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	478	xxxx	xxxx	723
Potent Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	539	xxxx	xxxx	373
Move Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	539	xxxx	xxxx	373
Volume/Cap:	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	1.56	xxxx	xxxx	2.09
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	44.9	xxxx	xxxx	30.3
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	282.0	xxxxx	xxxx	523.6
LOS by Move:	*	*	*	*	*	*	*	*	F	*	*	F
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	*	*	*	*	*	*	*	*
ApproachDel:	xxxxxx			xxxxxx			282.0			523.6		
ApproachLOS:	*			*			F			F		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
PM Peak Hour

Level Of Service Computation Report
Circular 212 Planning Method (Future Volume Alternative)

Intersection #1 CA-27 & SR-118 WB Ramps

Cycle (sec): 100 Critical Vol./Cap.(X): 1.021
Loss Time (sec): 0 Average Delay (sec/veh): xxxxxx
Optimal Cycle: 180 Level Of Service: F

Street Name:	CA-27						SR-118 WB Ramps					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Split Phase			Split Phase			Split Phase			Split Phase		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Y+R:	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Lanes:	2	0 1	0	0	0 1	1 0	0	0 0	0 0	1	1 0	0 1
Volume Module:												
Base Vol:	997	79	0	0	109	22	0	0	0	1152	1	96
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	1148	91	0	0	125	25	0	0	0	1326	1	110
Added Vol:	12	0	0	0	0	0	0	0	0	21	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	1160	91	0	0	125	25	0	0	0	1347	1	110
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	1160	91	0	0	125	25	0	0	0	1347	1	110
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	1160	91	0	0	125	25	0	0	0	1347	1	110
PCE Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
MLF Adj:	1.10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.00	1.00
FinalVolume:	1276	91	0	0	125	25	0	0	0	1482	1	110
Saturation Flow Module:												
Sat/Lane:	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425	1425
Adjustment:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Lanes:	2.00	1.00	0.00	0.00	1.66	0.34	0.00	0.00	0.00	1.99	0.01	1.00
Final Sat.:	2850	1425	0	0	2371	479	0	0	0	2848	2	1425
Capacity Analysis Module:												
Vol/Sat:	0.45	0.06	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.52	0.52	0.08
Crit Volume:	638					75		0			741	
Crit Moves:	****					****					****	

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #3 Rocky Peak Rd & SR-118 WB Ramps

Average Delay (sec/veh): 8.5 Worst Case Level Of Service: B[11.2]

Street Name:	Rocky Peak Road									SR-118 WB Ramps					
Approach:	North Bound				South Bound				East Bound				West Bound		
Movement:	L	-	T	- R	L	-	T	- R	L	-	T	- R	L	-	T	- R
Control:	Uncontrolled				Uncontrolled				Stop Sign				Stop Sign			
Rights:	Include				Include				Include				Include			
Lanes:	0	1 0	0	0	0	0 0	0	1 0	0	0 0	0	0 0	1	0 0	0	1 0
Volume Module:																
Base Vol:	110	2	0	0	4	8	0	0	0	89	0	4				
Growth Adj:	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15				
Initial Bse:	127	2	0	0	5	9	0	0	0	102	0	5				
Added Vol:	5	0	0	0	0	0	0	0	0	0	0	0				
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0				
Initial Fut:	132	2	0	0	5	9	0	0	0	102	0	5				
User Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
PHF Adj:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00				
PHF Volume:	132	2	0	0	5	9	0	0	0	102	0	5				
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0				
FinalVolume:	132	2	0	0	5	9	0	0	0	102	0	5				
Critical Gap Module:																
Critical Gp:	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	6.4	6.5	6.2				
FollowUpTim:	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	3.5	4.0	3.3				
Capacity Module:																
Cnflict Vol:	14	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	275	279	2				
Potent Cap.:	1618	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	719	632	1088				
Move Cap.:	1618	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	671	577	1088				
Volume/Cap:	0.08	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	0.15	0.00	0.00				
Level Of Service Module:																
2Way95thQ:	0.3	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.5	xxxx	xxxxx				
Control Del:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	11.3	xxxx	xxxxx				
LOS by Move:	A	*	*	*	*	*	*	*	*	B	*	*				
Movement:	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT	LT	-	LTR	- RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	1088				
SharedQueue:	0.3	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	0.0				
Shrd ConDel:	7.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	xxxxx	xxxx	8.3				
Shared LOS:	A	*	*	*	*	*	*	*	*	*	*	A				
ApproachDel:	xxxxxx			xxxxxx			xxxxxx			11.2						
ApproachLOS:	*			*			*			B						

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection #4 Rocky Peak Rd & Santa Susana Pass Rd

Average Delay (sec/veh): 5.9 Worst Case Level Of Service: A[10.0]

Street Name:	Rocky Peak Road						Santa Susana Pass Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Uncontrolled			Uncontrolled		
Rights:	Include			Include			Include			Include		
Lanes:	0 0	0	0 0	0 0	1!	0 0	0 1	0	0 0	0 0	0	1 0
Volume Module:												
Base Vol:	0	0	0	14	0	114	146	30	0	0	56	55
Growth Adj:	1.15 1.15	1.15		1.15 1.15	1.15		1.15 1.15	1.15		1.15 1.15	1.15	
Initial Bse:	0	0	0	16	0	131	168	35	0	0	64	63
Added Vol:	0	0	0	0	0	0	16	0	0	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	0	0	0	16	0	131	184	35	0	0	64	63
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	0	0	0	16	0	131	184	35	0	0	64	63
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
FinalVolume:	0	0	0	16	0	131	184	35	0	0	64	63
Critical Gap Module:												
Critical Gp:	xxxxx	xxxx	xxxxx	6.4	6.5	6.2	4.1	xxxx	xxxxx	xxxxx	xxxx	xxxxx
FollowUpTim:	xxxxx	xxxx	xxxxx	3.5	4.0	3.3	2.2	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Capacity Module:												
Cnflict Vol:	xxxx	xxxx	xxxxx	499	499	96	128	xxxx	xxxxx	xxxx	xxxx	xxxxx
Potent Cap.:	xxxx	xxxx	xxxxx	535	476	966	1471	xxxx	xxxxx	xxxx	xxxx	xxxxx
Move Cap.:	xxxx	xxxx	xxxxx	478	410	966	1471	xxxx	xxxxx	xxxx	xxxx	xxxxx
Volume/Cap:	xxxx	xxxx	xxxx	0.03	0.00	0.14	0.13	xxxx	xxxx	xxxx	xxxx	xxxx
Level Of Service Module:												
2Way95thQ:	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx	0.4	xxxx	xxxxx	xxxx	xxxx	xxxxx
Control Del:	xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx	7.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx
LOS by Move:	*	*	*	*	*	*	A	*	*	*	*	*
Movement:	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT	LT	LTR	RT
Shared Cap.:	xxxx	xxxx	xxxxx	xxxx	869	xxxxx	xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx	xxxx	xxxxx	xxxxx	0.6	xxxxx	0.4	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx	xxxx	xxxxx	xxxxx	10.0	xxxxx	7.8	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	*	*	*	*	A	*	A	*	*	*	*	*
ApproachDel:	xxxxxx			10.0			xxxxxx			xxxxxx		
ApproachLOS:	*			A			*			*		

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM 4-Way Stop Method (Future Volume Alternative)

Intersection #6 Valley Cir Blvd & Woolsey Canyon Rd

Cycle (sec): 100 Critical Vol./Cap.(X): 1.291
Loss Time (sec): 0 Average Delay (sec/veh): 100.6
Optimal Cycle: 0 Level Of Service: F

Street Name:	Valley Cir Boulevard						Woolsey Canyon Road					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L	T	R	L	T	R	L	T	R	L	T	R
Control:	Stop Sign			Stop Sign			Stop Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Min. Green:	0	0	0	0	0	0	0	0	0	0	0	0
Lanes:	0 1	0	0 0	0 0	1	0 1	1 0	0	0 1	0 0	0	0 0
Volume Module:												
Base Vol:	101	603	0	0	235	33	32	0	57	0	0	0
Growth Adj:	1.15 1.15	1.15		1.15 1.15	1.15		1.15 1.15	1.15		1.15 1.15	1.15	
Initial Bse:	116	694	0	0	270	38	37	0	66	0	0	0
Added Vol:	27	0	0	0	0	3	62	0	93	0	0	0
PasserByVol:	0	0	0	0	0	0	0	0	0	0	0	0
Initial Fut:	143	694	0	0	270	41	99	0	159	0	0	0
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
PHF Volume:	143	694	0	0	270	41	99	0	159	0	0	0
Reduct Vol:	0	0	0	0	0	0	0	0	0	0	0	0
Reduced Vol:	143	694	0	0	270	41	99	0	159	0	0	0
PCE Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
MLF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
FinalVolume:	143	694	0	0	270	41	99	0	159	0	0	0
Saturation Flow Module:												
Adjustment:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
Lanes:	0.17 0.83	0.00		0.00 1.00	1.00		1.00 0.00	1.00		0.00 0.00	0.00	
Final Sat.:	111	538	0	0	590	665	485	0	577	0	0	0
Capacity Analysis Module:												
Vol/Sat:	1.29	1.29	xxxx	xxxx	0.46	0.06	0.20	xxxx	0.28	xxxx	xxxx	xxxx
Crit Moves:		****			****				****			
Delay/Veh:	160.7	161	0.0	0.0	13.6	8.4	11.8	0.0	11.1	0.0	0.0	0.0
Delay Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00		1.00 1.00	1.00	
AdjDel/Veh:	160.7	161	0.0	0.0	13.6	8.4	11.8	0.0	11.1	0.0	0.0	0.0
LOS by Move:	F	F	*	*	B	A	B	*	B	*	*	*
ApproachDel:	160.7			12.9			11.4			xxxxxx		
Delay Adj:	1.00			1.00			1.00			xxxxx		
ApprAdjDel:	160.7			12.9			11.4			xxxxxx		
LOS by Appr:	F			B			B			*		
AllWayAvgQ:	27.4	27.4	27.4	0.0	0.8	0.1	0.2	0.0	0.4	0.0	0.0	0.0

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
PM Peak Hour

Note: Queue reported is the number of cars per lane.

Simi Valley Santa Susana Site EIR
Future 2032 With Project Conditions
PM Peak Hour

Level Of Service Computation Report
2000 HCM Unsignalized Method (Future Volume Alternative)

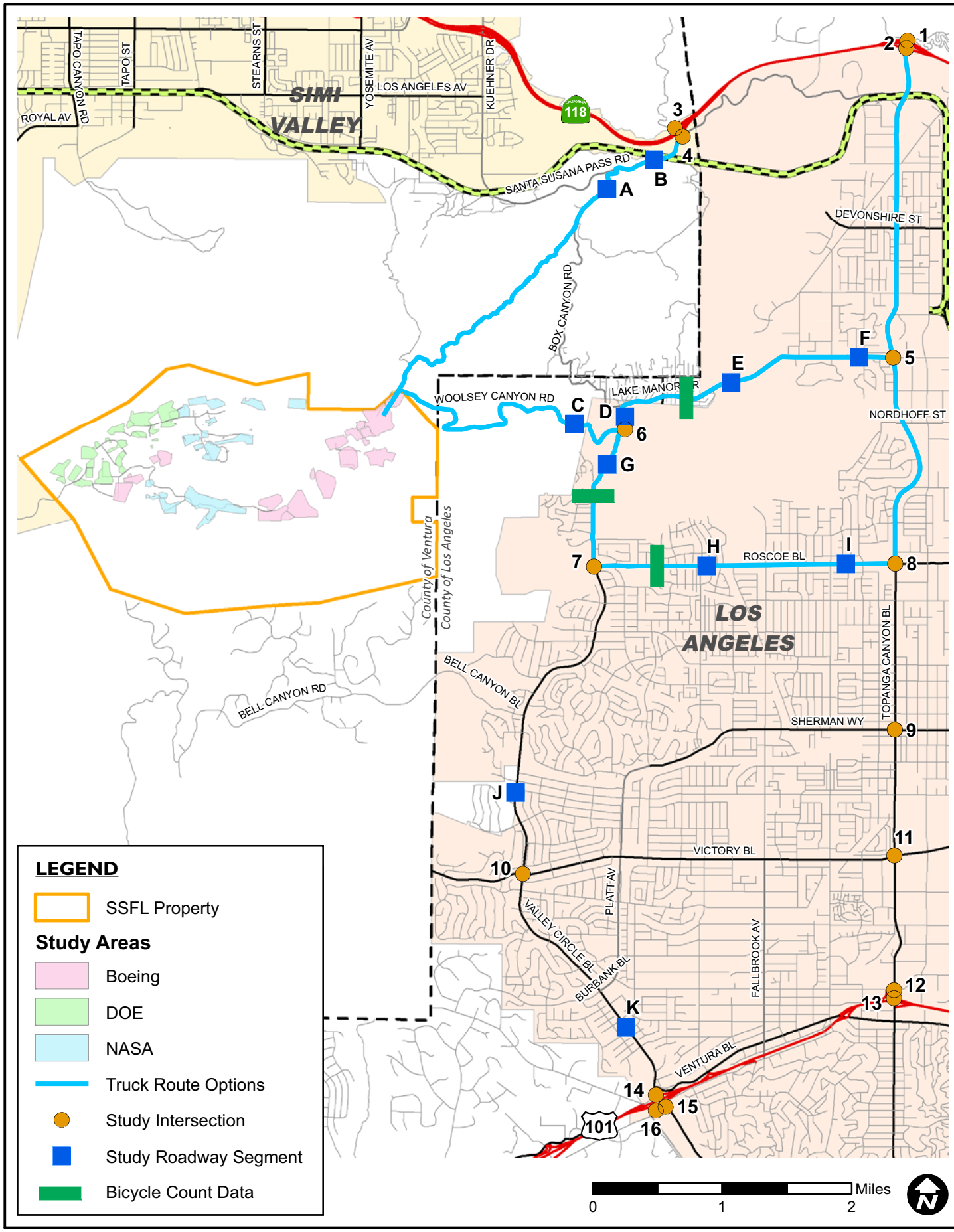
Intersection #13 CA-27 & US-101 NB Off Ramp

Average Delay (sec/veh): 155.3 Worst Case Level Of Service: F[839.8]

Street Name:	CA-27						US-101 NB Off Ramp					
Approach:	North Bound			South Bound			East Bound			West Bound		
Movement:	L - T - R			L - T - R			L - T - R			L - T - R		
Control:	Uncontrolled			Uncontrolled			Yield Sign			Stop Sign		
Rights:	Include			Include			Include			Include		
Lanes:	0 0 3 0 0			0 0 4 0 0			0 0 0 0 1			0 0 0 0 2		
Volume Module:												
Base Vol:	0 2435	0		0 1926	0		0	0	800	0	0	652
Growth Adj:	1.15 1.15	1.15		1.15 1.15	1.15		1.15	1.15	1.15	1.15	1.15	1.15
Initial Bse:	0 2803	0		0 2217	0		0	0	921	0	0	750
Added Vol:	0 0	0		0 16	0		0	0	0	0	0	3
PasserByVol:	0 0	0		0 0	0		0	0	0	0	0	0
Initial Fut:	0 2803	0		0 2233	0		0	0	921	0	0	753
User Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
PHF Adj:	1.00 1.00	1.00		1.00 1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00
PHF Volume:	0 2803	0		0 2233	0		0	0	921	0	0	753
Reduct Vol:	0 0	0		0 0	0		0	0	0	0	0	0
FinalVolume:	0 2803	0		0 2233	0		0	0	921	0	0	753
Critical Gap Module:												
Critical Gp:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	6.9	xxxxx	xxxx	6.9
FollowUpTim:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	3.3	xxxxx	xxxx	3.3
Capacity Module:												
Cnflict Vol:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	558	xxxx	xxxx	934
Potent Cap.:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	478	xxxx	xxxx	271
Move Cap.:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	478	xxxx	xxxx	271
Volume/Cap:	xxxx xxxx	xxxx		xxxx xxxx	xxxx		xxxx	xxxx	1.93	xxxx	xxxx	2.78
Level Of Service Module:												
2Way95thQ:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	61.0	xxxx	xxxx	34.3
Control Del:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	444.3	xxxxx	xxxx	839.8
LOS by Move:	* *	*		* *	*		*	*	F	*	*	F
Movement:	LT - LTR - RT			LT - LTR - RT			LT - LTR - RT			LT - LTR - RT		
Shared Cap.:	xxxx xxxx	xxxxx		xxxx xxxx	xxxxx		xxxx	xxxx	xxxxx	xxxx	xxxx	xxxxx
SharedQueue:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shrd ConDel:	xxxxx xxxx	xxxxx		xxxxx xxxx	xxxxx		xxxxx	xxxx	xxxxx	xxxxx	xxxx	xxxxx
Shared LOS:	* *	*		* *	*		*	*	*	*	*	*
ApproachDel:	xxxxxx			xxxxxx			444.3			839.8		
ApproachLOS:	*			*			F			F		

Note: Queue reported is the number of cars per lane.

APPENDIX E
Map of Bicycle Count Locations and Count Summaries



KOA CORPORATION PLANNING & ENGINEERING	Simi Valley Santa Susana Site Remediation EIR	Appendix E
		Bicycle Count Locations

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5098-001
N/S Street: Lake Manor Dr
E/W Street: Bet. Plummer St & Valley Cir Blvd
DATE: 2/27/2016
CITY: Chatsworth

A M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	2	0	0	0	0	0
7:15 AM	0	2	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	12	0	0	0	0	0	0
8:30 AM	0	1	0	0	0	0	0	0
8:45 AM	0	1	5	0	0	0	0	0
9:00 AM	0	0	4	0	0	0	0	0
9:15 AM	0	5	3	0	0	0	0	0
9:30 AM	0	3	8	0	0	0	0	0
9:45 AM	0	4	2	0	0	0	0	0
10:00 AM	0	1	2	0	0	0	0	0
10:15 AM	0	5	15	0	0	0	0	0
10:30 AM	0	1	0	0	0	0	0	0
10:45 AM	0	2	3	0	0	0	0	0
TOTALS	**0**	**38**	**44**	**0**	**0**	**0**	**0**	**0**

PEAK HOURS

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	
9:30 AM	0	13	27	0	0	0	0	0	**AM**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5098-001
N/S Street: Lake Manor Dr
E/W Street: Bet. Plummer St & Valley Cir Blvd
DATE: 2/25/2016
CITY: Chatsworth

A M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	2	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	1	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	1	0	0	0	0	0	0
9:00 AM	0	4	0	0	0	0	0	0
9:15 AM	0	3	1	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**8**	**4**	**0**	**0**	**0**	**0**	**0**

P M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:00 PM	0	0	0	0	0	0	0	0
2:15 PM	0	1	1	0	0	0	0	0
2:30 PM	0	0	1	0	0	0	0	0
2:45 PM	0	1	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	1	0	0	0	0	0	0
3:45 PM	0	0	3	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	4	0	0	0	0	0
TOTALS	**0**	**3**	**9**	**0**	**0**	**0**	**0**	**0**

PEAK HOURS

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	
8:45 AM	0	8	1	0	0	0	0	0	**AM**
11:45 PM	0	3	9	0	0	0	0	0	**PM**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5098-002
N/S Street: Valley Cir Blvd
E/W Street: Bet. Lake Manor Dr & Roscoe Blvd
DATE: 2/27/2016
CITY: Chatsworth

A M

BIKES

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	2
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	2	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	4
8:30 AM	0	0	0	0	5	0	0	9
8:45 AM	0	0	0	0	3	0	0	0
9:00 AM	0	0	0	0	5	0	0	0
9:15 AM	0	0	0	0	0	0	0	5
9:30 AM	0	0	0	0	11	0	0	5
9:45 AM	0	0	0	0	13	0	0	3
10:00 AM	0	0	0	0	4	0	0	1
10:15 AM	0	0	0	0	0	0	0	4
10:30 AM	0	0	0	0	1	0	0	1
10:45 AM	0	0	0	0	2	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**35**

PEAK HOURS

BIKES

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	
9:15 AM	0	0	0	0	28	0	0	14	**AM**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5098-002
N/S Street: Valley Cir Blvd
E/W Street: Bet. Lake Manor Dr & Roscoe Blvd
DATE: 2/25/2016
CITY: Chatsworth

A M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	1	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	1	0	0	0
8:30 AM	0	0	0	0	1	0	0	0
8:45 AM	0	0	0	0	0	0	0	1
9:00 AM	0	0	0	0	0	0	0	4
9:15 AM	0	0	0	0	1	0	0	3
9:30 AM	0	0	0	0	0	0	0	1
9:45 AM	0	0	0	0	0	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**9**

P M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:00 PM	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	1	0	0	0
2:30 PM	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	3	0	0	1
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	1	0	0	0
4:30 PM	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	4	0	0	0
TOTALS	**0**	**0**	**0**	**0**	**9**	**0**	**0**	**2**

PEAK HOURS

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	
8:45 AM	0	0	0	0	1	0	0	9	**AM**
3:30 PM	0	0	0	0	4	0	0	1	**PM**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5098-003
N/S Street: Roscoe Blvd
E/W Street: Bet. Valley Cir Blvd & Woodlake Ave
DATE: 2/27/2016
CITY: Chatsworth

A M

BIKES

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
7:00 AM	0	0	1	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0
7:30 AM	0	1	1	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	1	0	1	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0
8:45 AM	0	1	1	0	0	0	0	0
9:00 AM	0	1	1	0	0	0	0	0
9:15 AM	0	1	0	0	0	0	0	0
9:30 AM	0	1	2	0	0	0	0	0
9:45 AM	0	0	1	0	0	0	0	0
10:00 AM	0	1	1	0	0	0	0	0
10:15 AM	0	1	1	0	0	0	0	0
10:30 AM	0	0	5	0	0	0	0	0
10:45 AM	0	0	1	0	0	0	0	0
TOTALS	**1**	**8**	**16**	**0**	**0**	**0**	**0**	**0**

PEAK HOURS

BIKES

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	
10:00 AM	0	2	8	0	0	0	0	0	**AM**

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5098-003
N/S Street: Roscoe Blvd
E/W Street: Bet. Valley Cir Blvd & Woodlake Ave
DATE: 2/25/2016
CITY: Chatsworth

A M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:00 AM	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	1	0	0	0	0	0
7:00 AM	0	1	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
8:30 AM	0	2	0	0	0	0	0	0
8:45 AM	0	0	2	0	0	0	0	0
9:00 AM	0	0	2	0	0	0	0	0
9:15 AM	0	0	2	0	0	0	0	0
9:30 AM	0	1	1	0	0	0	0	0
9:45 AM	0	0	2	0	0	0	0	0
TOTALS	**0**	**4**	**10**	**0**	**0**	**0**	**0**	**0**

P M

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:00 PM	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0
2:30 PM	0	1	1	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0
3:45 PM	0	1	0	0	0	0	0	0
4:00 PM	0	0	1	1	0	0	0	0
4:15 PM	0	0	2	1	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0
5:30 PM	0	0	1	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0
TOTALS	**0**	**2**	**5**	**2**	**0**	**0**	**0**	**0**

PEAK HOURS

BIKES

TIME	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	
9:00 AM	0	1	7	0	0	0	0	0	**AM**
3:45 PM	0	1	3	2	0	0	0	0	**PM**

APPENDIX F
Signal Warrant Worksheets

INTERSECTION: Valley Circle Boulevard & Woolsey Canyon Road Scenario: Fut without Proj

Figure 4C-101 (CA). Traffic Signal Warrants Worksheets (Sheet 2 of 4)

WARRANT 2 - Four Hour Vehicular Volume **SATISFIED*** **YES** ☐ **NO** ☐

Record hourly vehicular volumes for any four hours of an average day.

NOT ANALYZED

APPROACH LANES	One	2 or More				Hour
Both Approaches - Major Street			0	0	0	
Higher Approach - Minor Street	x		0	0	0	

*All plotted points fall above the curves in Figure 4C-1. (Urban Areas)	YES ☐	NO ☐
OR, All plotted points fall above the curves in Figure 4C-2. (Rural Areas)	YES ☐	NO ☐

WARRANT 3 - Peak Hour **SATISFIED** **YES** ☒ **NO** ☐
(Part A or Part B must be satisfied)

PART A **SATISFIED** **YES** ☒ **NO** ☐

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1	The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND *86.2 seconds in delay & 4 vehicle-hours of delay*	YES ☒ NO ☐
2	The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	YES ☒ NO ☐
3	The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	YES ☒ NO ☐

PART B **SATISFIED** **YES** ☒ **NO** ☐

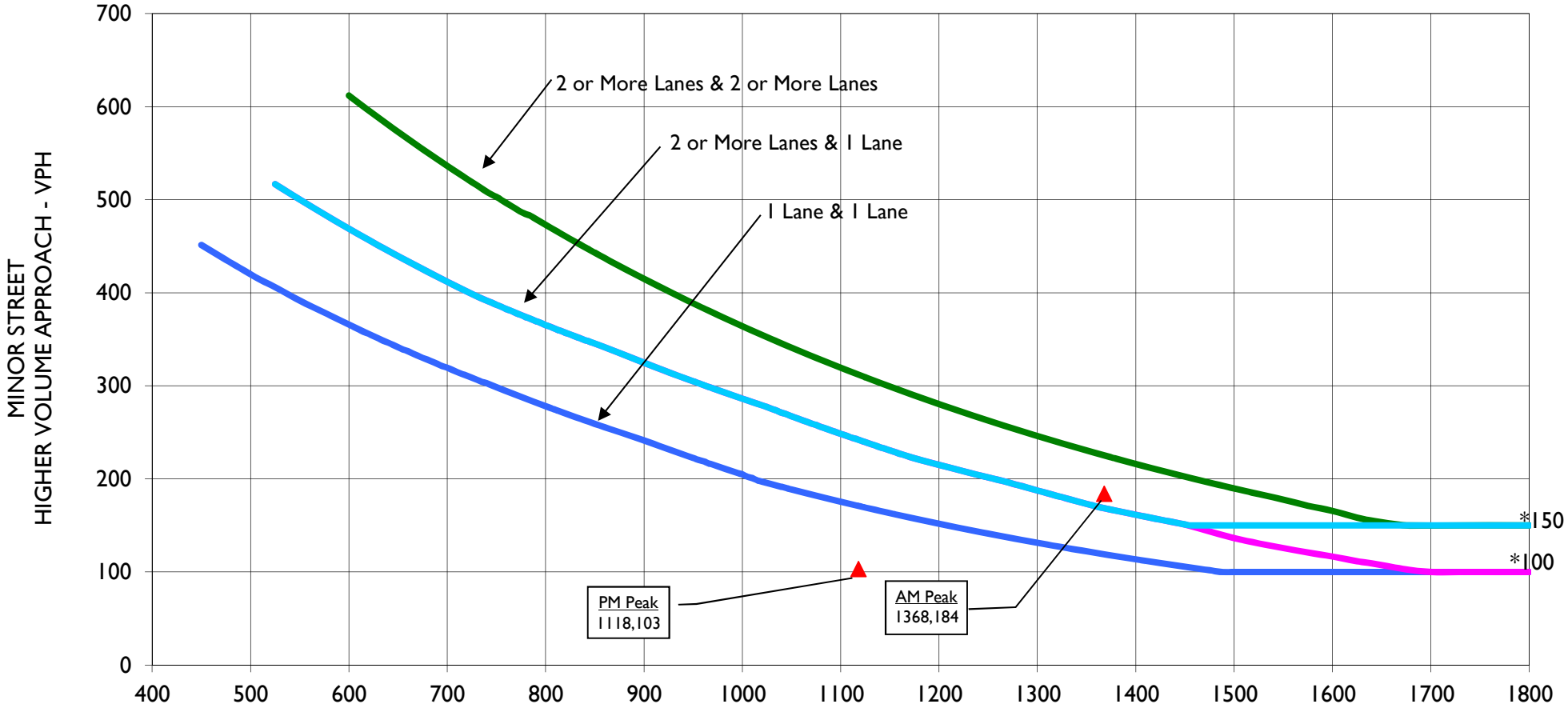
APPROACH LANES	One	2 or More	*am peak*	*pm peak*
Both Approaches - Major Street		x	1,368	1,118
Higher Approach - Minor Street	x		184	103

The plotted point falls above the curve in Figure 4C-3. (Urban Areas)	YES ☒	NO ☐
OR, The plotted point falls above the curve in Figure 4C-4. (Rural Areas)	YES ☐	NO ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

KOA CORPORATION
PLANNING & ENGINEERING

Valley Circle Boulevard & Woolsey Canyon Road
Peak hour Traffic Signal Warrant Based on
California Manual on Uniform Traffic Control Devices, 2014
Scenario: Future 2032 without Project



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

LEGEND
▲ Valley Circle Boulevard - 2 Lane(s) Major Street
Woolsey Canyon Road - 1 Lane(s) Minor Street

Peak Hour Volumes Satisfy Warrants? YES

INTERSECTION: Valley Circle Boulevard & Woolsey Canyon Road Scenario: Fut with Proj Alt 2

Figure 4C-101 (CA). Traffic Signal Warrants Worksheets (Sheet 2 of 4)

WARRANT 2 - Four Hour Vehicular Volume

SATISFIED* **YES** ☐ **NO** ☐

Record hourly vehicular volumes for any four hours of an average day.

NOT ANALYZED

APPROACH LANES	One	2 or More				Hour
Both Approaches - Major Street			0	0	0	
Higher Approach - Minor Street	x		0	0	0	

*All plotted points fall above the curves in Figure 4C-1. (Urban Areas)	YES ☐	NO ☐
OR, All plotted points fall above the curves in Figure 4C-2. (Rural Areas)	YES ☐	NO ☐

WARRANT 3 - Peak Hour
(Part A or Part B must be satisfied)

SATISFIED **YES** ☒ **NO** ☐

PART A

SATISFIED **YES** ☒ **NO** ☐

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1	The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND *105.1 seconds in delay & 7 vehicle-hours of delay*	YES ☒ NO ☐
2	The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	YES ☒ NO ☐
3	The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	YES ☒ NO ☐

PART B

SATISFIED **YES** ☒ **NO** ☐

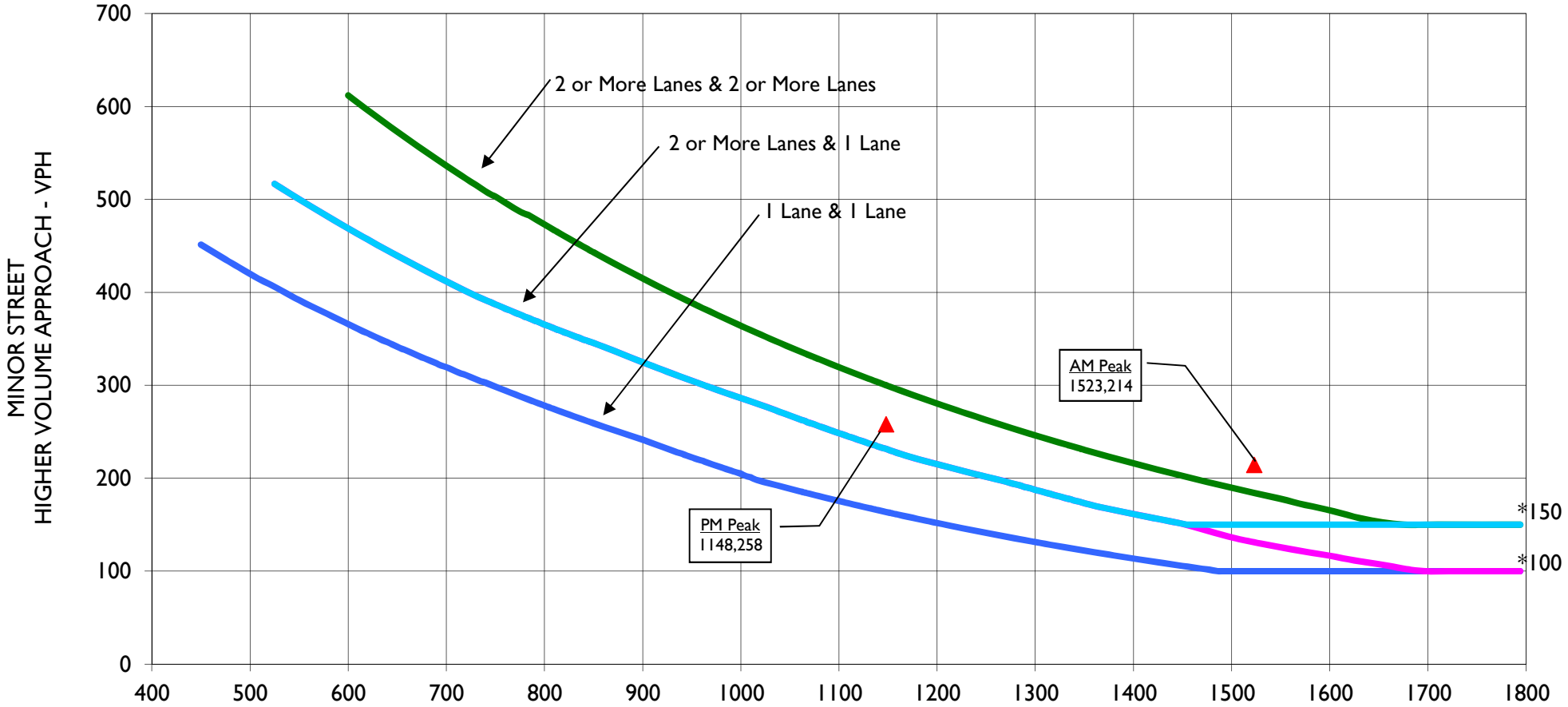
APPROACH LANES	One	2 or More	*am peak*	*pm peak*
Both Approaches - Major Street		x	1,523	1,148
Higher Approach - Minor Street	x		214	258

The plotted point falls above the curve in Figure 4C-3. (Urban Areas)	YES ☒	NO ☐
OR, The plotted point falls above the curve in Figure 4C-4. (Rural Areas)	YES ☐	NO ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

KOA CORPORATION
PLANNING & ENGINEERING

Valley Circle Boulevard & Woolsey Canyon Road
Peak hour Traffic Signal Warrant Based on
California Manual on Uniform Traffic Control Devices, 2014
Scenario: Future 2032 With Project



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

LEGEND
▲ Valley Circle Boulevard - 2 Lane(s) Major Street
Woolsey Canyon Road - 1 Lane(s) Minor Street

Peak Hour Volumes Satisfy Warrants? YES

INTERSECTION: Topanga Canyon Boulevard & US-101 NB Off Ramp Scenario: Fut without Proj

Figure 4C-101 (CA). Traffic Signal Warrants Worksheets (Sheet 2 of 4)

WARRANT 2 - Four Hour Vehicular Volume

SATISFIED* **YES** ☐ **NO** ☐

Record hourly vehicular volumes for any four hours of an average day.

NOT ANALYZED

APPROACH LANES	One	2 or More				Hour
Both Approaches - Major Street			0	0	0	
Higher Approach - Minor Street	x		0	0	0	

*All plotted points fall above the curves in Figure 4C-1. (Urban Areas)	YES ☐	NO ☐
OR, All plotted points fall above the curves in Figure 4C-2. (Rural Areas)	YES ☐	NO ☐

WARRANT 3 - Peak Hour
(Part A or Part B must be satisfied)

SATISFIED **YES** ☒ **NO** ☐

PART A

SATISFIED **YES** ☒ **NO** ☐

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1	The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND *834.9 seconds in delay & 214 vehicle-hours of delay*	YES ☒ NO ☐
2	The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	YES ☒ NO ☐
3	The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	YES ☒ NO ☐

PART B

SATISFIED **YES** ☒ **NO** ☐

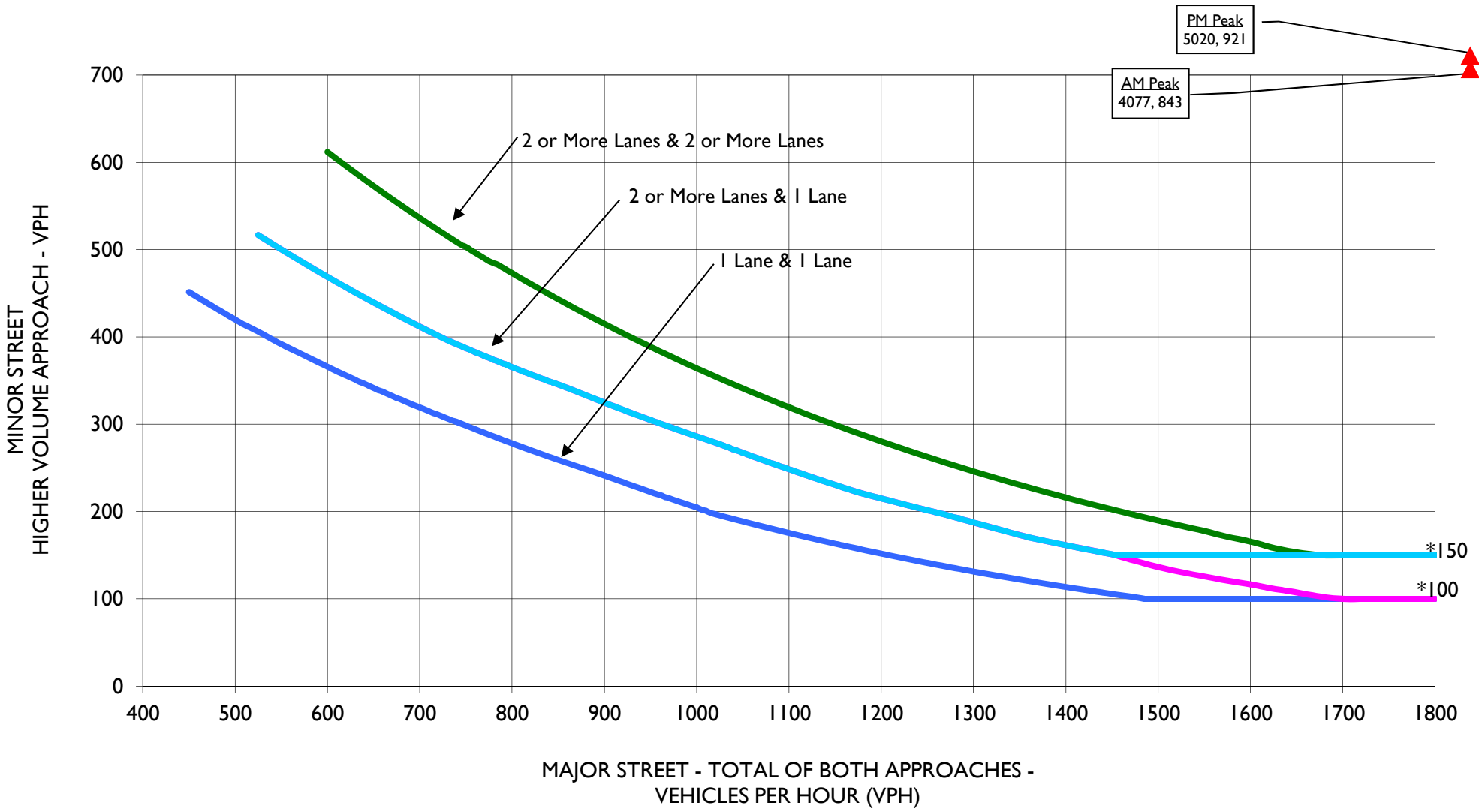
APPROACH LANES	One	2 or More	am peak	pm peak
Both Approaches - Major Street		x	4,077	5,020
Higher Approach - Minor Street	x		843	921

The plotted point falls above the curve in Figure 4C-3. (Urban Areas)	YES ☒	NO ☐
OR, The plotted point falls above the curve in Figure 4C-4. (Rural Areas)	YES ☐	NO ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

KOA CORPORATION
PLANNING & ENGINEERING

Topanga Canyon Boulevard & US-101 NB Off Ramp
Peak hour Traffic Signal Warrant Based on
California Manual on Uniform Traffic Control Devices, 2014
Scenario: Future 2032 without Project



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

LEGEND
▲ Topanga Canyon Boulevard - 3 Lane(s) Major Street
US-101 NB Off Ramp - 1 Lane(s) Minor Street

Peak Hour Volumes Satisfy Warrants? YES

INTERSECTION: Topanga Canyon Boulevard & US-101 NB Off Ramp Scenario: Fut with Proj

Figure 4C-101 (CA). Traffic Signal Warrants Worksheets (Sheet 2 of 4)

WARRANT 2 - Four Hour Vehicular Volume

SATISFIED* **YES** ☐ **NO** ☐

Record hourly vehicular volumes for any four hours of an average day.

NOT ANALYZED

APPROACH LANES	One	2 or More				Hou
Both Approaches - Major Street			0	0	0	
Higher Approach - Minor Street	x		0	0	0	

*All plotted points fall above the curves in Figure 4C-1. (Urban Areas)	YES ☐	NO ☐
OR, All plotted points fall above the curves in Figure 4C-2. (Rural Areas)	YES ☐	NO ☐

WARRANT 3 - Peak Hour
(Part A or Part B must be satisfied)

SATISFIED **YES** ☒ **NO** ☐

PART A

SATISFIED **YES** ☒ **NO** ☐

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1	The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND *839.8 seconds in delay & 215 vehicle-hours of delay*	YES ☒ NO ☐
2	The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	YES ☒ NO ☐
3	The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	YES ☒ NO ☐

PART B

SATISFIED **YES** ☒ **NO** ☐

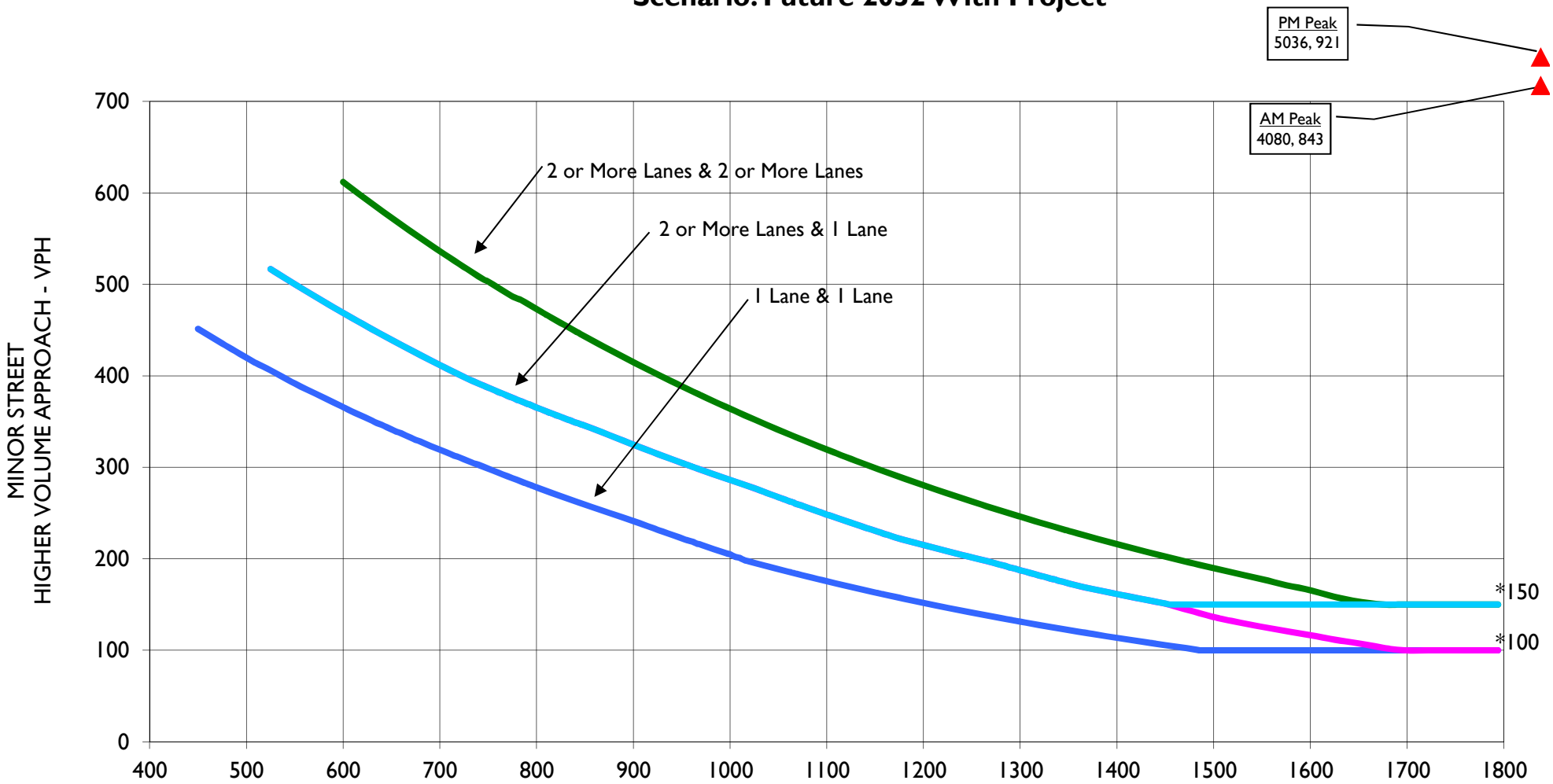
APPROACH LANES	One	2 or More	am peak	pm peak
Both Approaches - Major Street		x	4,080	5,036
Higher Approach - Minor Street	x		843	921

The plotted point falls above the curve in Figure 4C-3. (Urban Areas)	YES ☒	NO ☐
OR, The plotted point falls above the curve in Figure 4C-4. (Rural Areas)	YES ☐	NO ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

KOA CORPORATION
PLANNING & ENGINEERING

Topanga Canyon Boulevard & US-101 NB Off Ramp
Peak hour Traffic Signal Warrant Based on
California Manual on Uniform Traffic Control Devices, 2014
Scenario: Future 2032 With Project



*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

LEGEND
▲ Topanga Canyon Boulevard - 3 Lane(s) Major Street
US-101 NB Off Ramp - 2 Lane(s) Minor Street

Peak Hour Volumes Satisfy Warrants? YES

Appendix I
Noise Calculations

ESA

Acronyms and Abbreviations

ADT	Average Daily Traffic
Ave	Avenue
Blvd	Boulevard
B/t	Between
CALVENO	California Vehicle Noise
CNEL	Community Noise Equivalent Level
dB	decibel(s)
dB(A)	A-weighted decibel(s)
Dr	Drive
EIR	Environmental Impact Report
FHWA	Federal Highway Administration
ft	feet
FTA	Federal Transit Administration
Fwy	Freeway
in/sec	inch per second
L_{eq}	equivalent sound level, dBA
mph	mile(s) per hour
PPV	peak particle velocity
RD	Record of Decision
Rd	Road
rms	root-mean-square
St	Street
U.S.	United States
VdB	RMS vibration velocity level, decibels

Noise Measurement Data

****
Filename.....308062
Test Location.....Santa Susana - Ventura Co
Employee Name.....Courtney Casey
Employee Number.....
Department.....

Calibrator Type.....
Calibrator Cal. Date...
****

METROSONICS db-3080 V1.12 SERIAL # 3761
REPORT PRINTED ON 03/10/15 at 15:08:04

User ID: _____

Santa Susana
Short-term Measurements
Metrosonics db 3080/3761

LOGGING STARTED.....03/10/15 at 09:53:32
TOTAL LOGGING TIME...0 DAYS 00:30:00
LOGGING STOPPED.....03/10/15 at 10:23:32
TOTAL INTERVALS.....1
INTERVAL LENGTH.....00:30:00

AUTO STOP.....YES
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.

PRE-TEST CALIBRATION TIME....03/10/15 AT 09:52:31
PRE-TEST CALIBRATION RANGE...39.1 TO 139.1 dB
POST-TEST CALIBRATION NOT DONE
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 4 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 80dB 90dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS

Lav..... 43.8dB
Lav (80)..... 39.1dB
Lav (90)..... 39.1dB
SEL..... 76.2dB

Noise Measurement Data

TWA..... 39.1dB
TWA (80)..... 39.1dB
TWA (90)..... 39.1dB

Lmax..... 58.6dB 03/10/15 at 10:00:28
Lpk.....UNDER RANGE
TIME OVER 115dB...00:00:00.00

DOSE (80)..... 0.00%
PROJ. DOSE (80).. 0.00%
DOSE (90)..... 0.00%
PROJ. DOSE (90).. 0.00%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 4 >>>

TIME	Lav dBA	Lmax dBA	L(10.0) dBA	L(90.0) dBA
03/10/15 09:53:32	43.8	58.6	46.1	39.1

Noise Measurement Data

****

Filename.....308062
Test Location.....Santa Susana - Ventura Co
Employee Name.....Courtney Casey
Employee Number.....
Department.....

Calibrator Type.....
Calibrator Cal. Date...

****

METROSONICS db-3080 V1.12 SERIAL # 3761
REPORT PRINTED ON 03/10/15 at 15:11:19

User ID: _____

Santa Susana
Short-term Measurements
Metrosonics db 3080/3761

LOGGING STARTED.....03/10/15 at 10:48:06
TOTAL LOGGING TIME...0 DAYS 00:30:00
LOGGING STOPPED.....03/10/15 at 11:18:06
TOTAL INTERVALS.....1
INTERVAL LENGTH.....00:30:00

AUTO STOP.....YES
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.

PRE-TEST CALIBRATION TIME....03/10/15 AT 09:52:31
PRE-TEST CALIBRATION RANGE...39.1 TO 139.1 dB
POST-TEST CALIBRATION NOT DONE
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 2 OF 4 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 80dB 90dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS

Lav..... 45.7dB
Lav (80)..... 39.1dB
Lav (90)..... 39.1dB
SEL..... 78.1dB

Noise Measurement Data

TWA..... 39.1dB
TWA (80)..... 39.1dB
TWA (90)..... 39.1dB

Lmax..... 60.8dB 03/10/15 at 11:01:16
Lpk.....UNDER RANGE
TIME OVER 115dB...00:00:00.00

DOSE (80)..... 0.00%
PROJ. DOSE (80).. 0.00%
DOSE (90)..... 0.00%
PROJ. DOSE (90).. 0.00%

<<< TIME HISTORY REPORT FOR TEST NUMBER 2 OF 4 >>>

TIME	Lav dBA	Lmax dBA	L(10.0) dBA	L(90.0) dBA
03/10/15 10:48:06	45.7	60.8	47.1	39.1

Noise Measurement Data

****

Filename.....308062
Test Location.....Santa Susana - Ventura Co
Employee Name.....Courtney Casey
Employee Number.....
Department.....

Calibrator Type.....
Calibrator Cal. Date...

****

METROSONICS db-3080 V1.12 SERIAL # 3761
REPORT PRINTED ON 03/10/15 at 15:11:43

User ID: _____

Santa Susana
Short-term Measurements
Metrosonics db 3080/3761

LOGGING STARTED.....03/10/15 at 11:32:27
TOTAL LOGGING TIME...0 DAYS 00:30:00
LOGGING STOPPED.....03/10/15 at 12:02:27
TOTAL INTERVALS.....1
INTERVAL LENGTH.....00:30:00

AUTO STOP.....YES
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.

PRE-TEST CALIBRATION TIME....03/10/15 AT 09:52:31
PRE-TEST CALIBRATION RANGE...39.1 TO 139.1 dB
POST-TEST CALIBRATION NOT DONE
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 3 OF 4 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 80dB 90dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS

Lav..... 52.7dB
Lav (80)..... 39.1dB
Lav (90)..... 39.1dB
SEL..... 85.2dB

Noise Measurement Data

TWA..... 40.7dB
TWA (80)..... 39.1dB
TWA (90)..... 39.1dB

Lmax..... 73.7dB 03/10/15 at 11:42:00
Lpk.....UNDER RANGE
TIME OVER 115dB...00:00:00.00

DOSE (80)..... 0.00%
PROJ. DOSE (80).. 0.00%
DOSE (90)..... 0.00%
PROJ. DOSE (90).. 0.00%

<<< TIME HISTORY REPORT FOR TEST NUMBER 3 OF 4 >>>

TIME	Lav dBA	Lmax dBA	L(10.0) dBA	L(90.0) dBA
03/10/15 11:32:27	52.7	73.7	50.1	40.1

Noise Measurement Data

****
Filename.....308062
Test Location.....Santa Susana - Ventura Co
Employee Name.....Courtney Casey
Employee Number.....
Department.....

Calibrator Type.....
Calibrator Cal. Date...
****

METROSONICS db-3080 V1.12 SERIAL # 3761
REPORT PRINTED ON 03/10/15 at 15:12:08

User ID: _____

Santa Susana
Short-term Measurements
Metrosonics db 3080/3761

LOGGING STARTED.....03/10/15 at 12:24:13
TOTAL LOGGING TIME...0 DAYS 00:30:00
LOGGING STOPPED.....03/10/15 at 12:54:13
TOTAL INTERVALS.....1
INTERVAL LENGTH.....00:30:00

AUTO STOP.....YES
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.

PRE-TEST CALIBRATION TIME....03/10/15 AT 09:52:31
PRE-TEST CALIBRATION RANGE...39.1 TO 139.1 dB
POST-TEST CALIBRATION TIME...03/10/15 AT 12:55:05
POST-TEST CALIBRATION RANGE...39.1 TO 139.1
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 4 OF 4 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 80dB 90dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS

Lav..... 56.6dB
Lav (80)..... 39.1dB
Lav (90)..... 39.1dB
SEL..... 89.0dB

Noise Measurement Data

TWA..... 44.6dB
TWA (80)...... 39.1dB
TWA (90)...... 39.1dB

Lmax..... 78.3dB 03/10/15 at 12:38:31
Lpk.....UNDER RANGE
TIME OVER 115dB...00:00:00.00

DOSE (80)..... 0.00%
PROJ. DOSE (80).. 0.00%
DOSE (90)..... 0.00%
PROJ. DOSE (90).. 0.00%

<<< TIME HISTORY REPORT FOR TEST NUMBER 4 OF 4 >>>

TIME	Lav dBA	Lmax dBA	L(10.0) dBA	L(90.0) dBA
03/10/15 12:24:13	56.6	78.3	53.1	39.1

OFF-SITE TRAFFIC NOISE LEVELS

Project Name: Santa Susana Field Laboratory EIR

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Analysis Scenario(s): Existing (2015) Traffic Noise Levels
Source of Traffic Volumes: KOA Corporation, Traffic Study for Simi Valley Santa Susana Field Laboratory EIR, October 26, 2016. Caltrans 2015.
Community Noise Descriptor: L_{dn}: _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Name Roadway Segment	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	Peak Hour dB(A) L_{eq}	24-Hour dB(A) CNEL
Existing (2015) Traffic Conditions												
Box Canyon Road												
B/t Santa Susana Pass Rd. & Roberson Rd.	2	0	509	3,690	30	100	1	0	2.2%	0.8%	55.5	53.3
Santa Susana Pass Road												
B/t Rocky Peak Rd. & Box Canyon Rd.	2	0	365	3,324	30	100	1	0	2.2%	0.8%	54.1	52.9
Facility Road												
At Woolsey Canyon Road	2	0	254	2,417	30	1300	1	0	2.2%	0.8%	30.2	29.2
Valley Circle Boulevard												
B/t Box Canyon Rd. & Woolsey Canyon Rd.	2	0	1,164	8,786	20	100	1	0	2.2%	0.8%	55.6	53.5
B/t Plummer St. & Schumann Rd.	2	0	687	6,186	40	100	1	0	2.2%	0.8%	59.4	58.2
B/t Woolsey Canyon Rd. & Chatlake Dr.	2	0	1,247	9,487	35	100	1	0	2.2%	0.8%	60.6	58.6
B/t Vanowen St. & Victory Blvd.	4	11	2,179	21,010	45	100	0	0	2.2%	0.8%	68.9	68.0
B/t Burbank Blvd. & US-101 Fwy.	4	11	3,094	35,031	40	100	0	0	2.2%	0.8%	69.1	68.9
Plummer Street												
B/t Valley Circle Blvd. & Farralone Ave.	2	11	733	6,811	35	100	0	0	2.2%	0.8%	61.4	60.3
Roscoe Boulevard												
B/t Woodlake Ave. & Shoup Ave.	4	11	1,019	12,308	40	100	0	0	2.2%	0.8%	64.3	64.4
Shoup Ave. & Farralone Ave.	4	11	2,607	31,073	40	100	0	0	2.2%	0.8%	68.4	68.4
Topanga Canyon Boulevard												
North of Plummer Street	6	14	3,850	40,500	45	100	0	0	2.2%	1.0%	71.6	71.1
B/t Plummer St. & Roscoe Blvd.	4	14	4,250	46,000	45	100	0	0	2.2%	1.0%	71.9	71.5
South of Roscoe Blvd.	6	14	2,900	32,000	40	100	0	0	2.2%	1.0%	69.2	68.8

[1] Due to the varying distances of noise-sensitive uses to the roadway centerline, a reference distance of 100 feet is used for this analysis other than Facility Road.

OFF-SITE TRAFFIC NOISE LEVELS

Project Name: Santa Susana Field Laboratory EIR

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Analysis Scenario(s): Future (2032) Traffic Noise Levels without Project
Source of Traffic Volumes: KOA Corporation, Traffic Study for Simi Valley Santa Susana Field Laboratory EIR, March, 2017. Caltrans 2015.
Community Noise Descriptor: L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Name Roadway Segment	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	Peak Hour dB(A) L_{eq}	24-Hour dB(A) CNEL
Existing (2015) Traffic Conditions												
Box Canyon Road												
B/t Santa Susana Pass Rd. & Roberson Rd.	2	0	603	4,370	30	100	1	0	2.2%	0.8%	56.2	54.1
Santa Susana Pass Road												
B/t Rocky Peak Rd. & Box Canyon Rd.	2	0	432	3,937	30	100	1	0	2.2%	0.8%	54.8	53.6
Facility Road												
At Woolsey Canyon Road	2	0	301	2,862	30	1300	1	0	2.2%	0.8%	30.9	29.9
Valley Circle Boulevard												
B/t Box Canyon Rd. & Woolsey Canyon Rd.	2	0	1,379	10,405	20	100	1	0	2.2%	0.8%	56.3	54.3
B/t Plummer St. & Schumann Rd.	2	0	814	7,326	40	100	1	0	2.2%	0.8%	60.1	58.9
B/t Woolsey Canyon Rd. & Chatlake Dr.	2	0	1,477	11,235	35	100	1	0	2.2%	0.8%	61.3	59.4
B/t Vanowen St. & Victory Blvd.	4	11	2,581	24,882	45	100	0	0	2.2%	0.8%	69.6	68.7
B/t Burbank Blvd. & US-101 Fwy.	4	11	3,664	41,487	40	100	0	0	2.2%	0.8%	69.9	69.6
Plummer Street												
B/t Valley Circle Blvd. & Farralone Ave.	2	11	868	8,066	35	100	0	0	2.2%	0.8%	62.1	61.0
Roscoe Boulevard												
B/t Woodlake Ave. & Shoup Ave.	4	11	1,207	14,576	40	100	0	0	2.2%	0.8%	65.0	65.1
Shoup Ave. & Farralone Ave.	4	11	3,087	36,800	40	100	0	0	2.2%	0.8%	69.1	69.1
Topanga Canyon Boulevard												
North of Plummer Street	6	14	4,399	49,474	45	100	0	0	2.2%	1.0%	72.2	72.0
B/t Plummer St. & Roscoe Blvd.	4	14	4,493	56,193	45	100	0	0	2.2%	1.0%	72.1	72.3
South of Roscoe Blvd.	6	14	3,748	39,091	40	100	0	0	2.2%	1.0%	70.3	69.7

[1] Due to the varying distances of noise-sensitive uses to the roadway centerline, a reference distance of 100 feet is used for this analysis other than Facility Road.

OFF-SITE TRAFFIC NOISE LEVELS

Project Name: Santa Susana Field Laboratory EIR

Background Information

Model Description:	FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Analysis Scenario(s):	Future (2032) Traffic Noise Levels with Project
Source of Traffic Volumes:	KOA Corporation, Traffic Study for Simi Valley Santa Susana Field Laboratory EIR, March, 2017. Caltrans 2015.
Community Noise Descriptor:	L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Name Roadway Segment	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour dB(A) L_{eq}	24-Hour dB(A) CNEL
Future (2038) Traffic Conditions with Project												
Box Canyon Road												
B/t Santa Susana Pass Rd. & Roberson Rd.	2	0	619	4,434	30	100	1	0	2.2%	0.8%	56.3	54.1
Santa Susana Pass Road												
B/t Rocky Peak Rd. & Box Canyon Rd.	2	0	448	4,001	30	100	1	0	2.2%	0.8%	54.9	53.7
Facility Road												
At Woolsey Canyon Road	2	0	486	3,842	30	1300	1	0	2.1%	3.3%	35.5	33.7
Valley Circle Boulevard												
B/t Box Canyon Rd. & Woolsey Canyon Rd.	2	0	1,444	10,691	20	100	1	0	2.2%	0.9%	56.7	54.6
B/t Plummer St. & Schumann Rd.	2	0	863	7,548	40	100	1	0	2.2%	1.0%	60.5	59.2
B/t Woolsey Canyon Rd. & Chatlake Dr.	2	0	1,597	11,929	35	100	1	0	2.1%	1.5%	62.2	60.1
B/t Vanowen St. & Victory Blvd.	4	11	2,633	25,142	45	100	0	0	2.2%	0.9%	69.7	68.8
B/t Burbank Blvd. & US-101 Fwy.	4	11	3,716	41,747	40	100	0	0	2.2%	0.9%	70.0	69.7
Plummer Street												
B/t Valley Circle Blvd. & Farralone Ave.	2	11	917	8,288	35	100	0	0	2.2%	1.0%	62.5	61.3
Roscoe Boulevard												
B/t Woodlake Ave. & Shoup Ave.	4	11	1,275	15,010	40	100	0	0	2.1%	1.4%	65.7	65.6
Shoup Ave. & Farralone Ave.	4	11	3,155	37,234	40	100	0	0	2.2%	1.1%	69.4	69.3
Topanga Canyon Boulevard												
North of Plummer Street	6	14	4,478	50,347	45	100	0	0	2.2%	1.0%	72.3	72.0
B/t Plummer St. & Roscoe Blvd.	4	14	4,529	56,640	45	100	0	0	2.2%	1.0%	72.2	72.4
South of Roscoe Blvd.	6	14	3,774	39,360	40	100	0	0	2.2%	1.0%	70.3	69.7

[1] Due to the varying distances of noise-sensitive uses to the roadway centerline, a reference distance of 100 feet is used for this analysis other than Facility Road.

NOISE ANALYSIS FOR ALTERNATIVE 3 (48) HAUL TRUCKS

Roadway Segment	Noise Levels in dBA L_{eq}(hourly)[a] Baseline (2015) Traffic Volumes	Future (2032) With Project Traffic Volumes	Increase	Significance Threshold [b]	Exceeds Threshold?
Woolsey Canyon Road, between Valley Circle Boulevard and Knapp Ranch Road	54.7	60.1	5.4	5.0	**Yes**[d]
Facility Road at Woolsey Canyon Road[c]	30.2	34.0[e]	3.8	3.0	**Yes**

NOTES:

[a] Values represent noise levels at 100 feet from the centerline of the roadway.

[b] As discussed under Section 4.10.2, Thresholds of Significance, for the purpose of this analysis a substantial increase in traffic noise levels would occur if the project's haul truck and construction worker vehicle trips would contribute to a traffic noise level increase of 3 dBA or greater over existing ambient noise levels within the County of Ventura and 5 dBA or greater over existing ambient noise levels within the County of Los Angeles and the City of Los Angeles.

[c] Noise levels for this roadway are based on the distance of 1,300 feet where actual noise sensitive receiver is located and traffic volumes are the same as Woolsey Canyon Road due to the lack of information.

[d] Because the grade of Woolsey Canyon Road exceeds 5 percent, TNM was used to estimate noise levels, which were the average of 20 front row house locations at Summit Mobile Home Community.

[e] The number of haul trucks was reduced to 48 trips per day from 96 per day. The data for 96 trucks per day is presented on Page 4 of this appendix.

SOURCE: KOA, 2017; ESA, 2017d (see Appendix I).

Project Cleanup Activity Noise Level Calculation

Assumptions:

Soft ground
Source Height = 5 feet
Receiver Height = 5 feet

Heff= (5+5)/2 = 5
G = 0.75(1-(5/42)) = 0.661

Source: FTA, 2006. Chapter 6, Figure 6-5.

Receptor 1: American Jewish University campus

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	4200	40	-38.5	-12.7	-4.0	24.8
Scrapers	1	88	4200	55	-38.5	-12.7	-2.6	34.2
Tractor/Loader/Backhoe	1	85	4200	40	-38.5	-12.7	-4.0	29.8
Excavators	1	87	4200	40	-38.5	-12.7	-4.0	31.8
Haul Trucks	1	88	4200	40	-38.5	-12.7	-4.0	32.8
						Overall noise level at receptor		**38.6**

Receptor 2: Sage Ranch Park

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	1100	40	-26.85	-8.87	-4.0	40.3
Scrapers	1	88	1100	55	-26.85	-8.87	-2.6	49.7
Tractor/Loader/Backhoe	1	85	1100	40	-26.85	-8.87	-4.0	45.3
Excavators	1	87	1100	40	-26.85	-8.87	-4.0	47.3
Haul Trucks	1	88	1100	40	-26.85	-8.87	-4.0	48.3
						Overall noise level at receptor		**54.1**

Receptor 2: Sage Ranch Park MITIGATED

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	2000	40	-32.04	-10.59	-4.0	33.4
Scrapers	1	88	2000	55	-32.04	-10.59	-2.6	42.8
Tractor/Loader/Backhoe	1	85	2000	40	-32.04	-10.59	-4.0	38.4
Excavators	1	87	2000	40	-32.04	-10.59	-4.0	40.4
Haul Trucks	1	88	2000	40	-32.04	-10.59	-4.0	41.4
						Overall noise level at receptor		**47.2**

Receptor 3: Summit Mobile Home Community

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	3200	40	-36.12	-11.94	-4.0	28.0
Scrapers	1	88	3200	55	-36.12	-11.94	-2.6	37.3
Tractor/Loader/Backhoe	1	85	3200	40	-36.12	-11.94	-4.0	33.0
Excavators	1	87	3200	40	-36.12	-11.94	-4.0	35.0
Haul Trucks	1	88	3200	40	-36.12	-11.94	-4.0	36.0
						Overall noise level at receptor		**41.8**

Receptor 4: SFR in Bell Canyon along Wrangler Lane

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	4600	40	-39.28	-12.98	-4.0	23.8
Scrapers	1	88	4600	55	-39.28	-12.98	-2.6	33.1
Tractor/Loader/Backhoe	1	85	4600	40	-39.28	-12.98	-4.0	28.8
Excavators	1	87	4600	40	-39.28	-12.98	-4.0	30.8
Haul Trucks	1	88	4600	40	-39.28	-12.98	-4.0	31.8
						Overall noise level at receptor		**37.6**

Receptor 5: SFR in Bell Canyon along N. Hacienda Road

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	2900	40	-35.27	-11.66	-4.0	29.1
Scrapers	1	88	2900	55	-35.27	-11.66	-2.6	38.5
Tractor/Loader/Backhoe	1	85	2900	40	-35.27	-11.66	-4.0	34.1
Excavators	1	87	2900	40	-35.27	-11.66	-4.0	36.1
Haul Trucks	1	88	2900	40	-35.27	-11.66	-4.0	37.1
						Overall noise level at receptor		**42.9**

Receptor 6: SFR in Bell Canyon along Saddlebow Road

	# of Items	Item Leq @ 50 ft.	Distance to Receptor (feet)	Item Usage (%)	Distance Correction (dBA)	Ground Effect Adjustment (dBA)	Usage Adjustment (AdB)	Noise Level at Receptor (dBA)
Dozers	1	80	2000	40	-32.04	-10.59	-4.0	33.4
Scrapers	1	88	2000	55	-32.04	-10.59	-2.6	42.8
Tractor/Loader/Backhoe	1	85	2000	40	-32.04	-10.59	-4.0	38.4
Excavators	1	87	2000	40	-32.04	-10.59	-4.0	40.4
Haul Trucks	1	88	2000	40	-32.04	-10.59	-4.0	41.4
						Overall noise level at receptor		**47.2**

Project Cleanup Activity Vibration Calculation Methodology

In order to calculate "Receptor Item PPV" and "Receptor Item VdB" on following pages, the methodology described in the Federal Transit Administration's (FTA) Transit Noise and Vibration Assessment document was used. Following paragraphs briefly describe the source of data and equations used.

"Item PPV (in/sec) @ 25 ft." and "Item VdB @ 25 ft." are the referenced vibration levels based on Table 12-2 of FTA's document.

Receptor Item PPV was calculated based on the following equation:

$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$

where: PPV_{equip} is the peak particle velocity in in/sec of the equipment adjusted for distance. This is the same as Receptor Item PPV in tables.
PPV_{ref} is the reference vibration level in in/sec at 25 feet from Table 12-2 of FTA's document. This is the same as Item PPV (in/sec) @ 25 ft. in tables.
D is the distance from the equipment to the receiver. This is the same as Distance to Receptor (feet) in tables.

Receptor Item VdB was calculated based on the following equation:

$Lv(D) = Lv(25ft) - 30LOG(D/25)$

where: Lv(D) is the root mean square vibration velocity level at a receiver. This is the same as Receptor Item VdB in tables.
Lv(25ft) is the root mean square vibration velocity level at 25 feet reference distance from Table 12-2 of FTA's document. This is the same as Item VdB @ 25 ft. in tables.
D is the distance from the equipment to the receiver. This is the same as Distance to Receptor (feet) in tables.

Project Cleanup Activity Vibration Calculation

Receptor 1: American Jewish University campus

	# of Items	Distance to Receptor (feet)	Item PPV (in/sec) @ 25 ft.	Item VdB @ 25 ft.	Receptor Item PPV	Receptor Item VdB
Dozer/Hoe Ram/Caisson Drill	1	4200	0.089	87	0.00004	20.24
Loaded Truck	1	4200	0.076	86	0.00003	19.24
Jackhammer	1	4200	0.035	79	0.00002	12.24
Small bulldozer	1	4200	0.003	58	0.00000	0.00

Receptor 2: Sage Ranch Park

	# of Items	Distance to Receptor (feet)	Item PPV (in/sec) @ 25 ft.	Item VdB @ 25 ft.	Receptor Item PPV	Receptor Item VdB
Dozer/Hoe Ram/Caisson Drill	1	1100	0.089	87	0.00030	37.70
Loaded Truck	1	1100	0.076	86	0.00026	36.70
Jackhammer	1	1100	0.035	79	0.00012	29.70
Small bulldozer	1	1100	0.003	58	0.00001	8.70

Receptor 3: Summit Mobile Home Community

	# of Items	Distance to Receptor (feet)	Item PPV (in/sec) @ 25 ft.	Item VdB @ 25 ft.	Receptor Item PPV	Receptor Item VdB
Dozer/Hoe Ram/Caisson Drill	1	3200	0.089	87	0.00006	23.78
Loaded Truck	1	3200	0.076	86	0.00005	22.78
Jackhammer	1	3200	0.035	79	0.00002	15.78
Small bulldozer	1	3200	0.003	58	0.00000	0.00

Receptor 4: SFR in Bell Canyon along Wrangler Lane

	# of Items	Distance to Receptor (feet)	Item PPV (in/sec) @ 25 ft.	Item VdB @ 25 ft.	Receptor Item PPV	Receptor Item VdB
Dozer/Hoe Ram/Caisson Drill	1	4600	0.089	87	0.00004	19.06
Loaded Truck	1	4600	0.076	86	0.00003	18.06
Jackhammer	1	4600	0.035	79	0.00001	11.06
Small bulldozer	1	4600	0.003	58	0.00000	0.00

Receptor 5: SFR in Bell Canyon along N. Hacienda Road

	# of Items	Distance to Receptor (feet)	Item PPV (in/sec) @ 25 ft.	Item VdB @ 25 ft.	Receptor Item PPV	Receptor Item VdB
Dozer/Hoe Ram/Caisson Drill	1	2900	0.089	87	0.00007	25.07
Loaded Truck	1	2900	0.076	86	0.00006	24.07
Jackhammer	1	2900	0.035	79	0.00003	17.07
Small bulldozer	1	2900	0.003	58	0.00000	0.00

Receptor 6: SFR in Bell Canyon along Saddlebow Road

	# of Items	Distance to Receptor (feet)	Item PPV (in/sec) @ 25 ft.	Item VdB @ 25 ft.	Receptor Item PPV	Receptor Item VdB
Dozer/Hoe Ram/Caisson Drill	1	2000	0.089	87	0.00012	29.91
Loaded Truck	1	2000	0.076	86	0.00011	28.91
Jackhammer	1	2000	0.035	79	0.00005	21.91
Small bulldozer	1	2000	0.003	58	0.00000	0.91

Appendix J
Transportation Feasibility Study

ESA

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SANTA SUSANA FIELD LABORATORY PROJECT

Transportation Feasibility Analysis

Volume 1

Prepared for
Department of Toxic Substances Control

May 2017

ESA

Draft

Santa Susana Field Laboratory Project

Transportation Feasibility Analysis

Volume 1

Prepared for
Department of Toxic Substances Control

May 2017

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Acronyms and Abbreviations

AAR	Association of American Railroads
ABC	Articulated Bulk Container
AER	Annual Emissions Reporting
CDFW	California Department of Fish and Wildlife's
CEQA	California Environmental Quality Act
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CO	Carbon Monoxide
CSS	coastal sage scrub
CY	cubic yards
DOE	Department of Energy
DTSC	Department of Toxic Substances Control
ECDC	East Carbon Development Corporation
FTA	Federal Transit Administration's
GHG	Greenhouse Gases
LARWQCB	Los Angeles Regional Water Quality Control Board
MBTA	Migratory Bird Treaty Act
NASA	National Aeronautics and Space Administration
NEPA	National Environmental Policy Act
NPDES	National Pollution Discharge Elimination System
OHP	Office of Historic Preservation
PEIR	Program Environmental Impact Report
PPV	peak particle velocity
RMS	root mean square
ROC	Reactive Organic Compounds
ROW	Right of Way
RPs	Responsible Parties
RTG	rubber-tired gantry
SCAQMD	Southern California Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison

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SCRRA	Southern California Regional Rail Authority
SR	State Route
SSFL	Santa Susana Field Laboratory
UPRR	Union Pacific Railroad
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service's
VCAPCD	Ventura County Air Pollution Control District
VOC	Volatile Organic Compounds

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Executive Summary

Because of public concern about traffic congestion, noise, air quality, and safety, related to increased haul truck traffic on Woolsey Canyon Road, the California Department of Toxic Substances Control (DTSC) is evaluating alternative routes and methods to transport soil from the Santa Susana Field Laboratory (SSFL) site to the regional transportation network. This report evaluates the feasibility and cost of developing potential soil transport options, specifically a new dedicated truck haul road, an overland conveyor system, and an aerial conveyor system, all extending from the project site through or paralleling existing private roads and across private property.

Summary of Initial Screening and Options Carried Forward for Detailed Analysis

The initial analysis of potential truck haul routes and conveyor routes included 11 separate corridors (see **Table 2-1**) that could be used to transport soil from the SSFL site; this analysis was conducted after the potential options were presented to the public in August 2014. These routes were screened and some routes were eliminated from further analysis based on factors such as proximity of residential areas, presence of public or private roadway connections as part of the route, presence of private reserve lands, and the ability of public roadways within each route to generally handle large trucks.

After this initial screening, four routes were selected for detailed analysis of their technical feasibility and potential environmental impact to be compared to the route evaluated in the Program Environmental Impact Report (PEIR) for the SSFL, Woolsey Canyon Road Truck Route. The routes evaluated in detail in this report include:

Woolsey Canyon Road Truck Route. This route is the proposed truck route for the SSFL project which is evaluated in the PEIR. Haul trucks would travel through existing roadways within Ventura and Los Angeles Counties to State Route (SR) 118 or US 101. This route is included for analysis as a baseline point of comparison for the four potential options listed below.

Edison Road Truck Route. This truck route consists of an existing private roadway that extends from the north side of the SSFL site to Guardian Street to Tapo Canyon Boulevard in Simi Valley to SR 118. This private road would be improved with pavement and would be used in conjunction with Woolsey Canyon Road. This route would be used to transport contaminated soil from the SSFL site and to deliver clean backfill to the site.

Edison Road Overland Conveyor. This conveyor to truck option consists of constructing an overland conveyor along Edison Road that would transport soil from the west side of the SSFL site to a truck transfer site located in Simi Valley at Guardian Street and Tapo Canyon Boulevard. Trucks would be loaded with contaminated soil and would travel to disposal facilities via Tapo

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Canyon Boulevard to the SR 118. Under this potential option, clean backfill would either be transported to SSFL via the conveyor or by truck via Woolsey Canyon Road. [1]

North American Cutoff Road Overland Conveyor. This conveyor to rail option consists of constructing an overland conveyor along North American Cutoff Road that would transport soil from the east side of the SSFL site to a rail transfer site located in Simi Valley. Contaminated soil would be loaded into covered gondola cars which would be stored on a new rail siding to be constructed adjacent to the existing UPRR railroad. One to two trains would depart the facility each week to deliver contaminated soil to disposal sites in Oregon (hazardous waste) or Utah (non-hazardous waste). Under this potential option, clean backfill would be transported to the SSFL site by truck via Woolsey Canyon Road.[2]

North American Cutoff Road Aerial Conveyor. This conveyor to rail option consists of constructing an aerial conveyor along North American Cutoff Road that would transport soil from the east side of the SSFL site to a rail transfer site located in Simi Valley (the same rail site identified for the North American Cutoff Road Overland Conveyor route). Under this potential option, clean backfill would be transported to the SSFL site by truck via Woolsey Canyon Road.

Summary of Technical Evaluation and Environmental Analysis

To assess technical feasibility of construction and operation, the five options were evaluated for the following criteria:

- Required Land Acquisition or Right-of-Way (ROW)
- Technological Feasibility
- Permitting Constraints
- Implementation Schedule
- Construction Equipment and Workforce
- Cost

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1 Use of the conveyor for transport of clean backfill would require installation of a washing and drying system at the conveyor terminus to ensure backfill is not contaminated by materials from excavated soils. This system would increase the development cost of this alternative by as much as $11 million. Delivering backfill to the truck site, would also require additional soil handling (unloading clean backfill to a stockpile, loading the conveyor from the stockpile, conveying the material to the SSFL site, unloading the conveyor to a stockpile, loading trucks from the stock pile, and delivering to the location where the fill is needed. This additional handling would increase the total operational cost by approximately $8 million compared to delivering backfill by truck directly to the locations where fill is needed.

2 Access to Rail Transfer Site 2B would be from Smith Road, a local street that is lined with single family residences. Due to (1) width of this residential roadway, (2) proximity of residences to the road, (3) the size and configuration of the rail site cannot reasonably accommodate stockpiled backfill, and (4) the additional handling of backfill, (i.e. emptying trucks at the rail site, transporting backfill from a stockpile to the conveyor, conveying the material to SSFL, conveying from the conveyor to stockpile/truck), and (4) the additional handling of backfill, transport to Rail Transfer Site 2B by truck of clean backfill for conveyance to SSFL is not considered in this analysis.

The environmental analysis of construction and operation of each route considered potential impacts related to:

- Air Quality and Greenhouse Gases (GHG)
- Biological Resources
- Cultural Resources
- Energy Consumption
- Land Use Compatibility
- Noise
- Traffic

Conclusion

In terms of feasibility (i.e., land access, technological feasibility, rail logistics, permitting constraints, implementation schedule and cost), the most feasible routes to implement (in order of more feasible to less feasible) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route
3. Edison Road Overland Conveyor
4. North American Cutoff Road Overland Conveyor
5. North American Cutoff Road Aerial Conveyor

This report analyzed each of the routes in terms of potential effects and issues related to environmental resources, the routes with the fewest adverse environmental effects (in order of least adverse to most adverse) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Overland Conveyor
3. North American Cutoff Road Overland Conveyor
4. North American Cutoff Road Aerial Conveyor
5. Edison Road Truck Route

1.0 Introduction

This section presents the overall organization of this Transportation Feasibility Analysis, provides an overview of the SSFL project and background information relative to this Transportation Feasibility Analysis.

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1.1 Report Organization

This report is organized as follows:

Section 1.0 Introduction. This section presents the background of why this analysis was prepared.

Section 2.0 Potential Transport Routes Feasibility Analysis. This section presents the results of the initial screening applied to the potential options presented at the August 2014 public meetings (Section 2.1), explaining which routes were considered for more detailed analysis and why other routes were removed from further consideration. Section 2.2 of this report presents the results of the technical analysis of the routes retained after the initial screening.

Section 3.0 Environmental Analysis. This section evaluates potential environmental issues and environmental effects associated with development and operation of each feasible transport and conveyance route discussed in Section 2.2.

Section 4.0 Comparison of Feasible Transportation Options. This section provides a comparison of the technological and environmental analyses conducted for the potential transportation options evaluated in Section 2.2 and Section 3.0 of this report.

Section 5.0 Summary. This section summarizes the comparison presented in Section 4.0 and presents a ranking of the Feasible Transportation Options based on the results of the technological and environmental analyses.

Section 6.0 Preparers. This section lists the preparers of this report.

Section 7.0 References. This chapter presents a listing of all sources of information used in the preparation of this report.

1.2 Santa Susana Field Laboratory Cleanup Project

DTSC is the lead state regulatory agency overseeing cleanup of contaminated soil and groundwater at the SSFL. The National Aeronautics and Space Administration (NASA), Department of Energy (DOE), and the Boeing Company are the Responsible Parties (RPs) for implementing the cleanup project. The overall site cleanup of SSFL would require excavation and transport of approximately 2,523,000 cubic yards (CY) of soil from the SSFL site using approximately 165,000 truck trips. Implementation of the project would also require limited backfilling of excavations. The estimated quantity of backfill that would be imported to the site is approximately 1,366,000 CY which would require approximately 88,000 truck trips. This would results in a total of approximately 253,000 haul truck trips (excavation spoils and backfill combined) operating for approximately 15 years (assuming a daily range of 48 to 96 trucks per day, 21 days per month).

1.3 Background of Feasibility Analysis

Currently, the only public roadway access to the SSFL site that is feasible for haul truck traffic is Woolsey Canyon Road. Because of public concern about traffic congestion, noise, air quality, and safety, related to increased haul truck traffic on Woolsey Canyon Road, DTSC is evaluating

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alternative routes and methods to transport soil from the SSFL site to the regional transportation network. This report evaluates the feasibility and cost of developing potential soil transport options, specifically a new dedicated truck haul road, an overland conveyor system, and an aerial conveyor system, all roughly paralleling existing private roads or other ROWs.

The SSFL site is at a higher elevation than surrounding open lands and neighborhoods. Downhill grades located at the perimeter of the site significantly impact the feasibility of new roadways or conveyor routes (steep slopes require extensive grading and/or complicated switchback patterns for roadway construction or long segment runs for conveyors). At the bottom of the hillsides that flank the SSFL site to the north are public roadway connections and an east-west railroad corridor. The railroad is owned by the Southern California Regional Rail Authority (SCRRA), and Union Pacific Railroad (UPRR) has an access agreement for trains that use the corridor to serve local industrial customers.

Existing roadway connections are located on the east side of the site. Those roadways are a focus of the transportation analysis within the PEIR being prepared for SSFL. Two feasible routes evaluated in this analysis were included in the environmental alternatives analysis of the PEIR. It is important to note that implementation of any of the routes evaluated in this analysis would require additional environmental review under CEQA. If one of these routes were selected for implementation, soil excavation and transport offsite by truck via Woolsey Canyon Road would begin upon DTSC's certification of the PEIR and approval of the Program Management Plan and would continue until the selected route became operational.

1.4 Public Outreach

In August 2014, DTSC conducted two public meetings to inform the community that it was undertaking an analysis of alternative transportation routes and methods to transport excavated soil from the SSFL site. DTSC also solicited community input on additional types of transportation options (routes and methods) and presented 10 potential truck haul routes and two potential conveyor routes to be further evaluated for feasibility of development and use to transport soil from the site.

The potential options presented at the August 2014 meetings were screened for general feasibility, basic engineering and logistical factors, access, and community input from the public meetings.

This Transportation Feasibility Analysis reviews the practical feasibility, and possible complicating factors, of transporting contaminated soil from SSFL to nearby rail and highway corridors, for further transit to remote disposal facilities. The analysis leading up to this report involved a screening of the potential options (presented in Section 2.1), which included consideration of comments received from the public at the August 2014 public meetings; and then examined three viable concepts for transporting within the northern hillside areas—truck, overland conveyor, and aerial conveyor methods—and analyzed the practical implementation and rough magnitude of costs for each method.

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1.5 Assumptions

1.5.1 Soil Volumes

As shown in **Table 1-1**, implementation of the SSFL project would require excavation and transport of approximately 2,523,000 CY of soil from the SSFL site. The estimated quantity of backfill that would be imported to the site is approximately 1,366,000 CY.

As shown in **Table 1-2**, it is assumed that contaminated soil would be excavated at a rate ranging between 413 CY per day and 1,027, CY per day and that clean backfill would be delivered to the site at a rate ranging between 245 CY per day and 444 CY per day. These volumes correlate to the daily truck volumes shown in Table 1-2.

TABLE 1-1
SSFL CLEANUP PROJECT SOIL VOLUMES

Soil Type [a]	NASA (CY)	DOE (CY)	Boeing (CY)	Total (CY)
Radiologic	26,000	91,000	17,000	134,000
Hazardous	696,000	49,000	63,000	808,000
Non-hazardous	148,000	1,123,000	310,000	1,581,000
Total Contaminated Soil	**870,000**	**1,263,000**	**390,000**	**2,523,000**
Backfill	290,000 [b]	947,000 [c]	129,000 [b]	1,366,000
Disposal + Backfill	**1,160,000**	**2,210,000**	**519,000**	**3,889,000**

Notes:
All number rounded to nearest 1,000.

a. Soil waste type ratios are based on historical interim source removal actions and correspondence between each RP and DTSC (NASA, 2015c), (Boeing 2015a), (DOE, 2017).

b Boeing and NASA estimate backfill volume to be approximately 1/3 of the total excavation volume.

c DOE estimates backfill volume to be approximately 3/4 of the total excavation volume. The additional backfill percentage compared to Boeing and NASA's areas is to account for deeper excavations required in DOE's areas of responsibility.

TABLE 1-2
SOIL EXCAVATION AND BACKFILL DELIVERY RATES [a]

	Excavation		Backfill		
Years	Daily Rate (BCY/day)	Daily Truck Volume [b]	Daily Rate (BCY/day)[c]	Daily Truck Volume	Total Daily Truck Volume [d]
1–2	736	48	245	16	**64**
3–4	1,027	67	444	29	**96**
5–10	781	51	444	29	**80**
11–15	413	27	321	21	**48**

[a] Rates based on DTSC engineers estimate

[b] Truck trips calculated assuming truck volume capacity of 15.33 CY per truck (23 tons per truck load, and 1.5 tons per in situ CY of soil).

[c] BCY = bank cubic yards (the measurement of 1 CY of earth in its natural state before it is removed from the ground)

[d] Excavation trips + Backfill Trips

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For all options evaluated in this analysis, it is assumed that soil excavation and transport offsite by truck via Woolsey Canyon Road would begin upon DTSC's certification of the PEIR and approval of the Program Management Plan and subsequent cleanup decision documents. If one of the transportation options evaluated in this report were to be used to transport contaminated soil from SSFL, it would take approximately 45 to 48 months to plan, permit (including full environmental review), and construct the selected option. During that 45- to 48-month period, and as a shown in **Table 1-3**, approximately 822,000 CY[3] of contaminated soil would be excavated and transported from the site and approximately 326,000 CY[4] of backfill would be transported to the site, for a total of approximately 1,148,000 CY of soil to be transported (excavation spoils and backfill) to and from the SSFL site.

TABLE 1-3
INITIAL CLEANUP ACTIVITIES SOIL VOLUMES

Soil Type	NASA (CY)	DOE (CY)	Boeing (CY)	Total (CY)
Radiologic	10,000	91,000	17,000	118,000
Hazardous	278,000	5,000	59,000	342,000
Non-hazardous	59,000	32,000	271,000	362,000
Total Contaminated Soil	**347,000**	**128,000**	**347,000**	**822,000**
Backfill	115,000 [a]	96,000 [b]	115,000 [a]	326,000
Disposal + Backfill	**462,000**	**224,000**	**462,000**	**1,148,000**

Notes:
All number rounded to nearest 1,000.
[a] Boeing and NASA estimate backfill volume to be approximately 1/3 of the total excavation volume.
[b] DOE estimates backfill volume to be approximately 3/4 of the total excavation volume. The additional backfill percentage compared to Boeing and NASA's areas is to account for deeper excavations required in DOE's areas of responsibility.

As shown in **Table 1-4**, after 45 months of cleanup operations at the project site, the amount of soil remaining to be excavated and transported from the site would be approximately 1,701,000 CY and the remaining amount of backfill to be transported to the site would be approximately 1,023,000 CY (see Table 1-4). **Table 1-5** shows a summary of the different types of contaminated soil to be excavated and transported from the project site.

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3 This schedule assumes a soil excavation rate of 736 CY/day for the first 24 months of operation and 1,027 CY/day for the following 21 months.

4 This schedule assumes a backfill delivery rate of 245 CY/day for the first 24 months of operation and 444 CY/day for the following 21 months.

TABLE 1-4
SUMMARY OF SOIL EXCAVATION AND BACKFILL VOLUMES

Project [a]	Excavation	Backfill	Total
Overall SSFL Cleanup Project (15 years)	2,523,000	1,349,000	3,872,000
Initial Projects (1st 45 months)	822,000	326,000	1,148,000
Balance (Overall - Initial Projects)	**1,701,000**	**1,023,000**	**2,724,000**

Notes:
All number rounded to nearest 1,000.

[a] These schedules assume a soil excavation rate of 736 CY/day for the first 24 months of operation and 1,027 CY/day for the following 21 months, and a backfill delivery rate of 245 CY/day for the first 24 months of operation and 444 CY/day for the following 21 months.

TABLE 1-5
SUMMARY OF CONTAMINATED SOIL VOLUMES

Project	Hazardous	Non-hazardous	Radiologic [a]	Total
Overall SSFL Cleanup Project (15 years) [b]	808,000	1,581,000	134,000	2,523,000
Initial Projects (1st 45 months) [b]	342,000	362,000	118,000	822,000
Balance (Overall - Initial Projects)	**466,000**	**1,219,000**	**16,000**	**1,701,000**

[a] Radiologic material is expected to be excavated and transported to disposal facilities during the first 45 months of operation and therefore would not be shipped by rail. If a rail option were selected, the remaining 16,000 CY of radiologic material would be transported by truck. Therefore, the approximate total volume of contaminated soil expected to be available for rail transport would be 1,685,000 (the total remaining volume of 1,701,000 less 16,000 CY of radiologic material).

[b] These schedules were developed based on the excavation and backfill rates presented in Table 1-2

1.5.2 Disposal Facilities for Potential Transportation Options

1.5.2.1 Truck Transport

All radiologically contaminated soil would be excavated and transported by truck to facilities in Nevada or Utah that are approved to accept low level radioactive waste. Hazardous and non-hazardous soil to be transported by truck would go to various disposal facilities located in California, Utah, Nevada, and possibly other states. The RPs have identified a number of potential facilities for disposal of soil, sediments, and other remediation-related wastes to be removed from the site, including facilities that accept non-hazardous waste, hazardous waste, and wastes that are contaminated with radionuclides. The RPs, under the direction of DTSC, would use a variety of factors, to determine which disposal facilities to use, such as waste acceptance criteria, cost, proximity, and availability, among other considerations. The specific disposal facilities that would be used by the RPs have not been identified. Therefore, to provide a

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conservative analysis, it was assumed that the following types of waste would be transported to facilities located at the following average distances from the SSFL site:[5]

- Non-hazardous material – 120 miles (240 miles roundtrip)
- Hazardous material – 310 miles (620 miles roundtrip)
- Radiologic material – 450 miles (900 miles roundtrip)

1.5.2.2 Rail Transport

This analysis evaluates the feasibility of rail transport from the SSFL site to the railway network. Of the waste disposal facilities being considered by the RPs, only Energy Solutions in Clive, Utah has direct rail access: however, this facility only accepts radiologic waste and radiologic waste from SSFL would not be transported by rail. Sixteen of the waste disposal facilities identified by the RPs are located within 80 miles of a rail line (eight of which are within 30 miles of a rail line). However, no existing transfer facilities have been identified near any of the disposal facilities and construction and permitting of a new transfer facility in California is not feasible or within the scope of this project.

If one of the rail options were chosen, non-hazardous soil would be shipped to East Carbon Development Corporation (ECDC) in East Carbon, Utah (located approximately 900 miles from SSFL by rail), and hazardous soil would be shipped to Waste Management in Arlington, Oregon (located approximately 1,550 miles from SSFL by rail). These two facilities have been identified as the closest facilities to SSFL that accept hazardous and non-hazardous waste directly by rail and are the two facilities considered in this analysis.

Currently a source for backfill has not been identified, so it is assumed all backfill would be transported to the site via truck, even if a rail option were selected for transport of excavated soil.

Gondola cars (open-topped rail cars used for transporting loose bulk materials (see **Figure 1** and **Figure 2**) have a capacity of 100 to 105 tons (railcar rating for most railcar types is, by convention, expressed in tons, not volumetric capacity). This equates to approximately 67 to 70 bank CY[6] of soil per car (assuming 1.5 tons per CY). Soil density in the gondola cars can vary widely, depending upon the soil properties, including moisture content and soil type of the loose material.

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5 These distances were calculated by selecting the second closest disposal facility identified by each RP for each type of waste, and calculating the average distance traveled based upon the total volume to be transported to each facility. Disposal facilities considered in this analysis include: Clean Harbors Buttonwillow (CA); Azusa Land Reclamation (CA); Chemical Waste Management, Kettleman Hills Facility (CA); Clean Harbors Westmoreland (CA); La Paz County Landfill (AZ); Clean Harbors Grassy Mountain (UT); Nevada National Security Site (NV).

6 A bank CY is the calculation or measurement of 1 CY of earth in its natural state before it is removed from the ground.



Figure 1
Uncovered Gondola Car
Shown for reference and perspective, all SSFL related waste would be covered or sealed for transport.

It is also assumed that railcars would move in "unit trains," which are generally composed of 60 or more railcars that move together from origin to destination and return with no intermediate switching. Thus, unit trains offer a simpler operating scheme and more reliable travel times compared to shipping individual railcars; individual railcars would have to be incorporated into other trains and thus subject to switching at intermediate points.

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Figure 2
Covered Gondola Car

2.0 Potential Transport Routes Feasibility Analysis

This section describes the screening analysis used to identify which transportation, routes, technologies, transfer sites and disposal facilities are reasonably feasible to implement/use for the overall cleanup of SSFL. This section also provides a technical evaluation for the routes, technologies, transfer sites and disposal facilities considered to be feasible in the screening analysis.

2.1 Screening

The initial analysis of potential truck haul routes and conveyor routes included 11 separate corridors (see **Table 2-1**) that could be used to transport soil from the SSFL site; this analysis was conducted after the potential options were presented to the public in August 2014. The truck haul routes and some conveyor routes were defined based on existing access roads that currently access areas adjacent to the site, as well as on public comments. The overland conveyor routes presented in August 2014 were defined based on the report prepared for NASA titled *Feasibility Study – Alternative Contaminated Soil Transport and Disposal Options* (NASA 2013).

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TABLE 2-1
PRELIMINARY ALTERNATIVE TRANSPORTATION ROUTES

Route #	Route Name
1	Montgomery Fire Road to southwest
2	Montgomery Fire Road northwest to Simi Valley
3	Runkle Haul Road
4	Arness Fire Road
5	Black Canyon Road
6	North American Cutoff Road
7A	Woolsey Canyon via Plummer
7B	Woolsey Canyon via Roscoe
8A	Bell Canyon Road via Stagecoach Road
8B	Bell Canyon Road via Saddlebow Road
9	Edison Road Corridor
10	Western Conveyor Route
11	Eastern Conveyor Route

Note: Route numbers correspond to those shown in **Figure 3**.

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These routes were screened and some routes were eliminated from further analysis based on factors such as proximity of residential areas, presence of public or private roadway connections as part of the route, presence of private reserve lands, and the ability of public roadways within each route to generally handle large trucks.

Table 2-2 provides a matrix of evaluation factors and characteristics of each route, such as linear length on new corridors, length on public roads, miles adjacent to residential areas, number of adjacent schools, and miles to freeway access points or to transfer sites. The sections following Table 2-2 provide the analysis of each route that was the basis for the screening process.

TABLE 2-2
FIRST-ROUND ROUTE EVALUATION, INITIAL FEASIBILITY ANALYSIS

Transport Routes	Miles to Freeway (Total Truck Route)	Miles on Private / Dirt Roads	Miles on Public Roads	Miles Adjacent to Residential Areas	Number of Adjacent Schools	Route Requires Easement	Potential One-Way Offsite Operations	Percent of Route with ≥ 27% Grade
1. Montgomery Fire Road to southwest	9.34	6.68	2.66	2.35	1	Yes	Yes	17%
2. Montgomery Fire Road northwest to Simi Valley	7.66	3.55	4.11	3.68	1	Yes	Yes	18%
3. Runkle Haul Road – Sequoia Avenue	5.84	0.93	4.91	4.27	0	Yes	Yes	22%
4. Arness Fire Road – Tapo Canyon Road	4.73	3.60	1.13	0.51	1	Yes	Yes	19%
5. Black Canyon Road – Yosemite Avenue	4.01	0.23	3.79	2.09	1	No	Yes	19%
6. N. American Cutoff Road – Santa Susana Pass	3.60	2.13	1.47	1.25	0	Yes	Yes	18%
7a. Woolsey Canyon Road – Plummer Street	7.53	0.23	7.30	3.29	0	No	No	14%
7b. Woolsey Canyon Road – Roscoe Blvd	10.29	0.23	10.06	6.15	1	No	No	14%
8a. Bell Canyon Rd East – via Stagecoach Road	8.77	2.46	6.31	3.91	3	Yes	No	15%
8b. Bell Canyon Rd West – via Saddlebow Road	11.09	4.78	4.04	2.00	3	Yes	No	18%
9. Edison Corridor	3.29	3.29	0.00	0.00	0	Yes	Yes	20%
10. Western Conveyor Route	NA	NA	NA	0.00	0	Yes	NA	NA
11. Eastern Conveyor Route	NA	NA	NA	0.36	0	Yes	NA	NA

NA = Not Applicable

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2.1.1 Truck Routes

Potential truck hauling routes were considered in this analysis that could provide for three potential transport scenarios:

- Truck hauling from the SSFL site directly to permitted landfills via public roadways.
- Truck hauling from the SSFL site directly to permitted landfills using a newly improved private roadway on the north side of the SSFL site to access public roadways.
- Transport by conveyor from the SSFL site directly to a truck transfer site, for subsequent hauling by truck to landfills via public roadways.

Transport by truck is the most readily available option, and the simplest to implement. Currently, the only possibility for truck transport is Woolsey Canyon Road, the only existing paved public roadway providing access to the project site. There are also existing dirt roads between the site and the railway and highway that could potentially be improved for use as a truck haul route, and there are commercially available truck haulers operating in the region and the highway corridor.

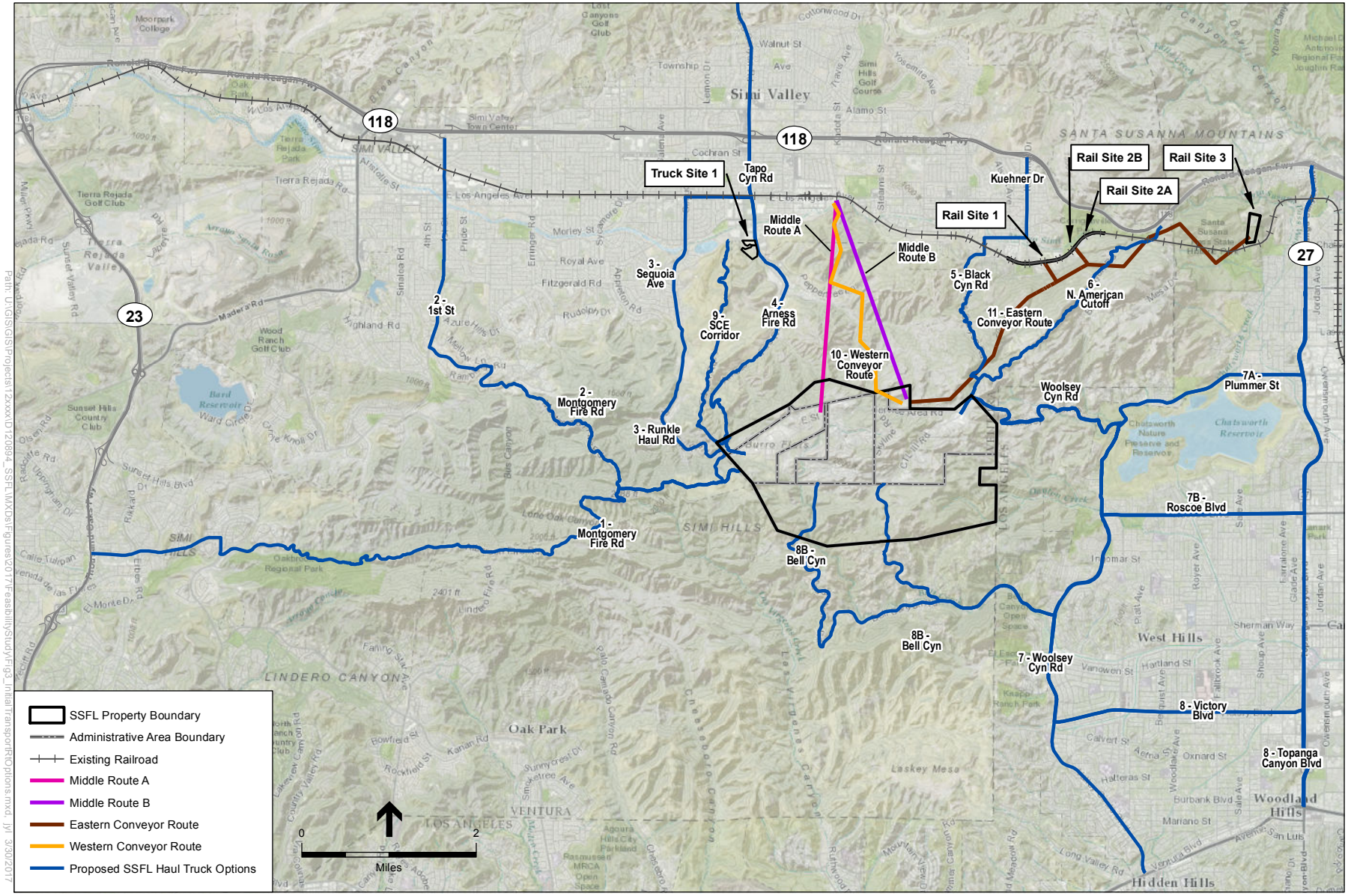
No special equipment would be necessary for the trucks themselves, although they would be covered to prevent dust emissions during travel.

The existing dirt access/fire roads in the hillsides adjacent to the SSFL site are steep and narrow, in some places have inaccessible turns for larger vehicles, but could be improved to allow for efficient truck hauling operations. Paving the roadways would be necessary to reduce long-term erosion and allow for use during all weather conditions. The paved truck route, if built for materials conveyance, would need to be maintained over the course of operations. At the end of operations, the pavement and roadbed would be removed and the route would be restored to previous conditions.

The following figures illustrate the conveyance routes—truck haul routes, traditional conveyor routes, and aerial conveyor routes—considered in the initial analysis, the smaller set of routes considered in the updated effort, and the final set of routes considered for detailed analysis within this report:

- **Figure 3** shows the potential transport routes considered in the initial analysis effort.
- **Figure 4** shows the routes considered for detailed evaluation in this report, including the extents of the Woolsey Canyon Road route.

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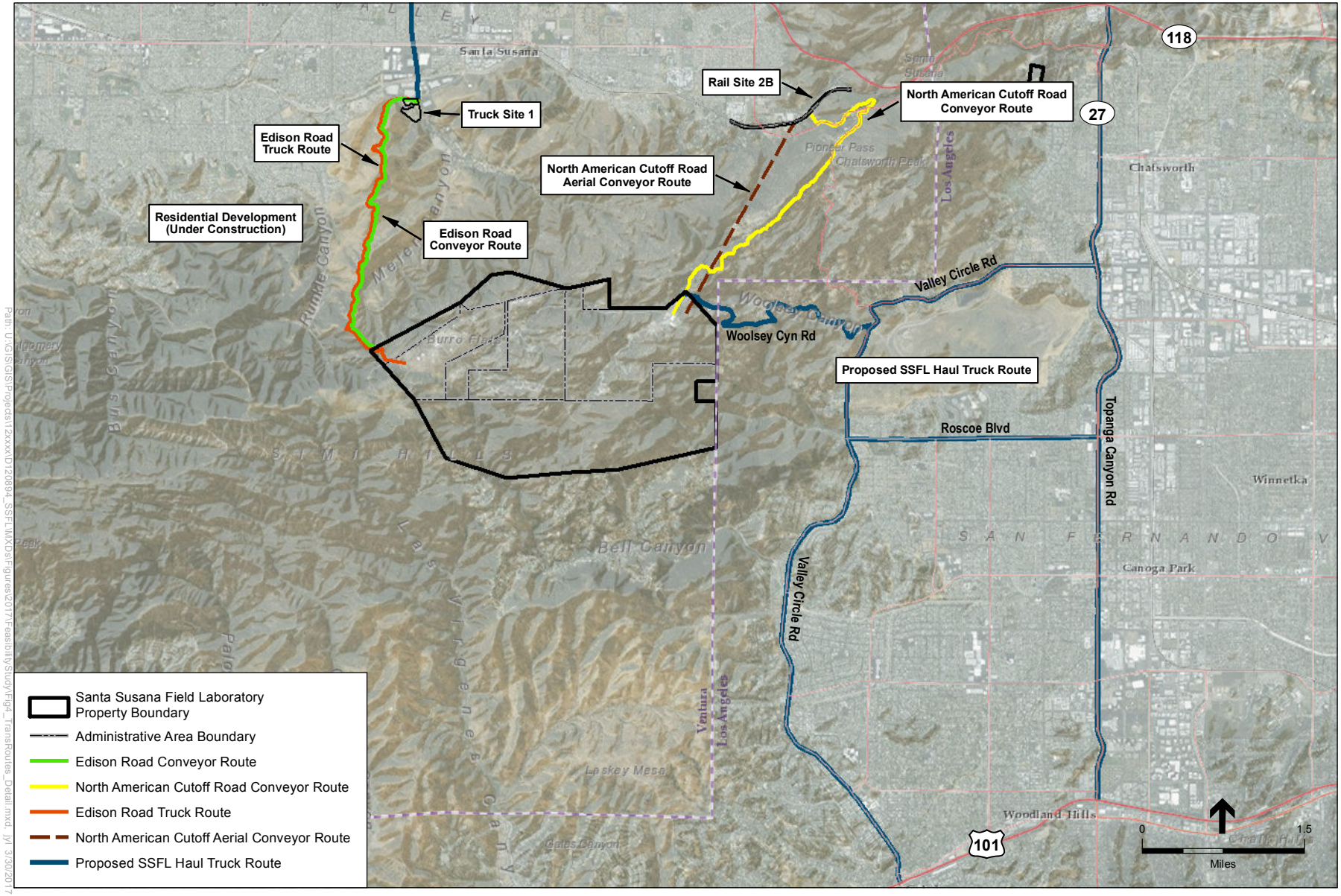


SOURCE: ESRI; ESA; KOA

Santa Susana Field Laboratory . 120894

Figure 3

Initial Transport Route Options



SOURCE: ESRI; ESA; KOA

Santa Susana Field Laboratory . 120894

Figure 4

Transport Routes Retained for Detailed Analysis

2.1.1.1 Montgomery Fire Road Truck Routes (#1, #2)

Compared to the other routes considered, the Montgomery Fire Road #1 route would have the longest length of new roadway over currently unpaved access roads and public/private lands. The length of Montgomery Fire Road #1 between SSFL and public roadways would be 6.7 miles, which is nearly double the length of the two routes that were ultimately chosen (Edison Road and North American Cutoff Road are 3.29 miles and 3.60 miles long, respectively). The increased length of the unpaved portion of this route would result in increased construction costs, as well as increased potential for impacts to biological and cultural resources during construction of the road. The point at which Montgomery Fire Road #1 would access public roadways is a residential neighborhood, which would increase the potential for emissions and noise impacts to occur within a residential neighborhood.

Montgomery Fire Road #2 would access the public roadway network in a densely populated residential neighborhood which would require haul trucks to travel through local residential streets[7] for approximately one mile before accessing 1st Street, a 4-lane collector road. Also, these routes would not connect to any rail transfer sites. Therefore, these routes were eliminated from further analysis.

2.1.1.2 Runkle Haul Road Truck Route (#3)

This corridor would be constructed adjacent to and through a new residential neighborhood. The outlet of the route at its northern connection to the public roadway network would be within a residential area on Sequoia Avenue. This route would result in the most miles traveled on local 2-lane residential streets. The presence of existing and future residential uses directly adjacent to the route made this route less preferred than others due to the potential impacts related to air quality, noise, and traffic. This route was therefore eliminated from further analysis.

2.1.1.3 Arness Fire Road Truck Route (#4)

This route would have a northern connection with public roadways on Pepper Tree Lane, adjacent to an active youth camp. The overall route would parallel the youth camp and would exit onto Peppertree Lane, a local roadway that provides access to the youth camp. This route was eliminated from further analysis because of its direct proximity to the youth camp.

2.1.1.4 Black Canyon Road Truck Route (#5)

This corridor, located primarily on public roadways, would offer a fairly direct route to SR 118 access points to the north of the SSFL site. Black Canyon Road, however, is a very curvy road through mountainous, hilly terrain, and long-term truck movements over this roadway would not be feasible. This route was therefore eliminated from further analysis.

[7] A local street is a roadway that provides access for pedestrians and vehicles to abutting properties, but is not intended for through traffic.

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2.1.1.5 North American Cutoff Road Truck Route (#6)

This truck haul route would provide access to the public roadway network at its northern terminus at Box Canyon Road, to the north of Santa Susana Pass Road. Based on the curvilinear and narrow configuration of Box Canyon Road between the North American Cutoff Road terminus and Santa Susana Pass Road, trucks would likely need escort vehicles and/or flag persons to complete the route to SR 118, which would disrupt existing public traffic operations for the 15-year duration of SSFL remediation activities. The narrow configuration of the Box Canyon Road segment makes the route infeasible for a long-term trucking operation. This route was therefore eliminated from further analysis as a haul truck route. However, it is included for detailed analysis as a conveyor route, as explained in more detail in Section 2.1.2 and Section 2.2.

2.1.1.6 Woolsey Canyon Road (via Plummer or Roscoe) (#7A & #7B)

These routes are comprised of existing collector roads or considered feasible and have been included as part of the proposed truck haul route being evaluated in the PEIR being prepared for the overall site cleanup of SSFL. This route also has the capability to be used as a transportation route for imported backfill.

2.1.1.7 Bell Canyon Road Truck Routes (#8A & #8B)

These routes would provide access from the south side of the SSFL site, and would provide connections to Valley Circle Boulevard and/or Topanga Canyon Boulevard, with subsequent connections to US 101 or SR 118. A sizeable proportion of the route between the SSFL site and major public roadways would be via a private, gated neighborhood along local streets. Long-term truck hauling would not be feasible via this route. This route was therefore eliminated from further analysis.

2.1.1.8 Edison Road Corridor (#9)

This route would be located along Edison Road, an existing, privately owned road that is operated by Southern California Edison (SCE) via an easement. This route was selected for further analysis because it provides relatively direct access from the SSFL site to a viable transfer site (Truck Site 1 is located at the northern terminus of this route), it is not directly adjacent to any residential or sensitive land uses, and the slopes along the corridor provide for a more feasible construction scenario compared to other routes. This route also has the capability to be used as a transportation route for imported backfill.

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2.1.2 Conveyor Routes

Potential conveyor routes were considered in this analysis that could provide for two potential transport scenarios:

- Hauling by conveyor system to a truck transfer site, for subsequent hauling by truck to landfills via public roadways.
- Hauling by conveyor to a nearby rail transfer site, for subsequent hauling by rail to landfills.[8]

As transport by rail is more efficient and less costly than by truck, a final determination of the most economical means of transport from the highway/rail corridor at SSFL to the final disposal site is highly dependent on the distance travelled. For one-way distances of 200 miles or less, direct transport by truck is likely the most economical approach. However, for longer distances, transport by rail would likely be more economical. Transport by rail opens up the opportunity to transport for very long distances to remote disposal sites.

2.1.2.1 Overland Conveyance

Overland conveyors are typically used in quarry and mining operations for the transportation of large quantities of materials (millions of CY). For large operations and/or shorter distances, conveyor systems are more economical to operate than trucks, as they have a higher initial capital outlay than a haul road, but lower operating costs.

Compared to trucks, overland conveyors create less noise and less air emissions as well, and can even generate electricity when transporting material downhill. The initial engineering and installation cost increases with rough terrain due to the required multiple changes in direction and elevation and numerous continuous supporting trusses.

Overland conveyors (belt systems with individual segments with drop locations between segments) require continuous maintenance for belt and motor repairs and replacements, and monitoring/maintenance of transfer points. Conventional conveyor technology was therefore eliminated from further consideration because a pipe conveyor can more efficiently deliver materials through the terrain and distances considered in this analysis.

In the material loading area, the pipe conveyor belt is open and is loaded in a similar fashion to a conventional conveyor belt. After loading, a special idler arrangement forces the flat belt to be rolled up and closed into a conveyor pipe that then carries the material (see **Figure 5**).

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[8] Many of the disposal facilities being considered for use for this project do not have direct rail access. Additional transport from a rail to truck transport facility to the final destination was considered infeasible.

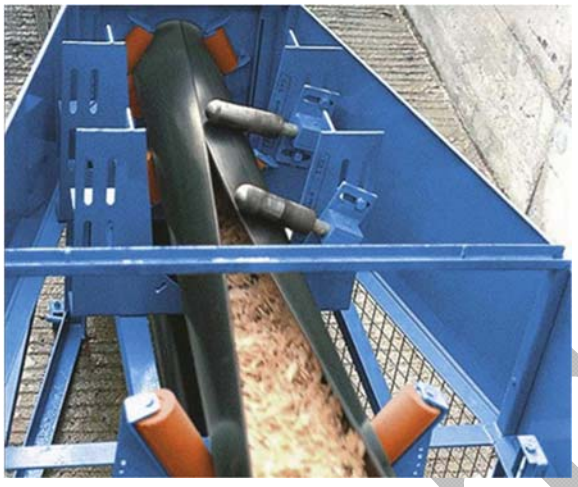


Figure 5
Pipe Conveyor Material Loading

At the discharge point, the belt reopens to discharge the material. After discharge, the return belt automatically closes again to form a closed pipe. The belt's ability to open and close could allow simultaneous material transport in the conveyor's upper run and its lower return belt run.

The pipe belt is flexible, which allows for directional changes without requiring transfer stations (see **Figure 6**). It can follow natural and manmade routes such as hills, rivers, bridges, roads, etc. Routing can be at grade, on bends, or with horizontal, vertical, or even three-dimensional curves. In addition, as much as 40 percent of the belt pipe would be mounted on concrete sleepers resting on the ground surface. Depending on the routing and belt size, the pipe conveyor typically has electric drive motors at the tail as well as head pulleys. All drive motors are frequency controlled to achieve different handling speeds.

This type of conveyor has the ability to convey material in both directions, either concurrently or sequentially. This means, the potential exists for this system to convey contaminated soil from SSFL to a transfer site and convey clean backfill from the transfer site to SSFL concurrently. This type of operation would require a cleaning system with washing and drying occurring as a continuous process without the need to stop the system to change from one material to another.

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Figure 6
Overland Conveyor System Showing Directional Changes

Elevation profiles were created from existing topographical maps. Thus, the profiles are approximate, but for purposes of this analysis, this level of accuracy is acceptable for estimating the technological feasibility and types of environmental effects that may occur from this technology. During design more detailed site specific surveys would be required.

Abiding by the premise that following existing roadways and keeping the conveyor length as short as possible would minimize total installation costs and adverse environmental effects, three potential pipe conveyor route corridors were identified: Black Canyon Road, Edison Road, and North American Cutoff Road.

When soil removal cleanup activities are complete and the pipe conveyor is no longer needed for operations, the conveyor system would be decommissioned.

Black Canyon Road Conveyor Route

The Black Canyon Road route (see Figure 3) is feasible for development of an overland conveyor primarily along the existing road; however, this route option was eliminated because it would discharge into a residential neighborhood with no clear ROW to a rail transfer site.

North American Cutoff Road Conveyor Route

This route would be located along North American Cutoff Road (see, an existing privately owned road located near the northeast portion of the SSFL site. This conveyor route was retained for detailed analysis because it follows a nearly continuous existing roadway from the loading point to the preferred loadout sites, it avoids major industrial and residential areas, and the slope of the corridor is within pipe conveyor capabilities. The routes identified along North American Cutoff Road for the overland conveyor and aerial conveyor technologies differ based on the topographical and road radius design limitations specific to each technology; specifically, the aerial conveyor requires a linear alignment.

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Edison Road Conveyor Route

This route would be located along Edison Road (see Figure 3), an existing privately owned road that is operated by SCE via an easement. This route was selected for further analysis for use as an overland conveyor route for the following reasons:

- The route provides relatively direct access from SSFL to a viable transfer site (Truck Site 1 is located at the northern terminus of this route).
- A conveyor route in this corridor can be constructed to roughly follow the existing Edison Road, providing access to the route for construction and maintenance.
- The slopes along the corridor provide for a more feasible construction scenario, as compared to other conveyor routes envisioned in the initial feasibility analysis.
- There are no adjacent residential developments or uses along private portion of the route.

2.1.2.2 Aerial Conveyance

An aerial conveyor system (also termed "cableway," and more commonly thought of as an "aerial tramway" system) is an aerial option to a ground-mounted overland conveyor system. Aerial conveyors, being supported by widely spaced pylons, would have a decreased aboveground footprint compared to overland conveyors. However, more land disturbance would occur with this technology compared to an overland conveyor system, because the support towers would require excavated and concrete-poured footings. Aerial conveyors can transport loose soil or containerized loads directly to a highway/rail corridor, with very little noise over the conveyor route. They require minimal maintenance and, after construction, little disturbance of the natural areas along the transportation corridor.

A primarily downhill route would allow the system to operate with a minimal amount of electrical power. With containerized transport, no spillage or wind-borne dust would be generated. However, aerial conveyor systems have the highest initial capital cost of all of the potential optional routes.

As this technology was being considered during the screening process that occurred after the August 2014 public meeting, three potential aerial conveyor route corridors were identified: Middle Route A, Middle Route B, and North American Cutoff Road; these corridors are described below and shown in Figure 3. Edison Road was not considered compatible with the aerial conveyor technology because of the location and orientation of the road relative to SSFL and Truck Site 1. The aerial conveyor technology requires a linear alignment —a clear linear path from SSFL to Truck Site 1 along Edison Road is not available.

This type of conveyor has the ability to convey material in both directions, either concurrently or sequentially. This means, the potential exists for this system to convey contaminated soil from SSFL to a transfer site and convey clean backfill from the transfer site to SSFL concurrently. This type of operation would either require a cleaning system or a separate set of transport containers used for the aerial conveyor system.

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When soil removal cleanup activities are complete and the aerial conveyor is no longer needed for operation, the conveyor system would be decommissioned.

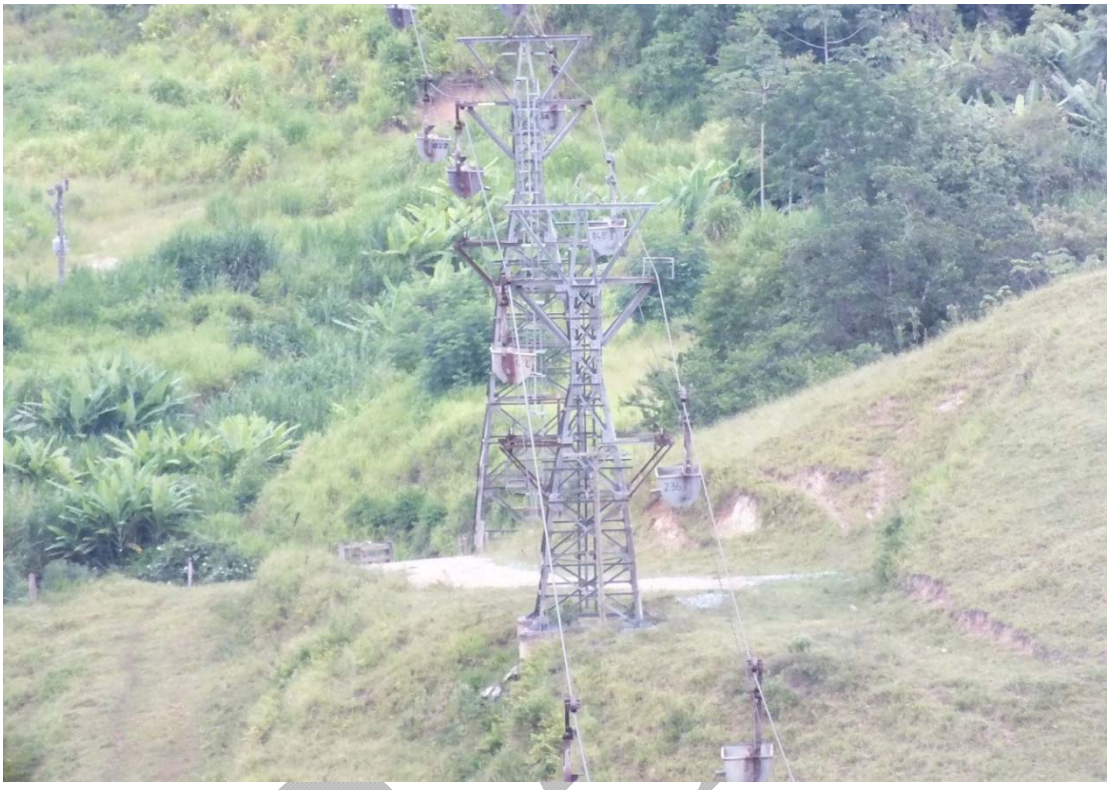


Figure 7
Aerial Conveyor System

Middle Routes A and B

Middle Routes A and B (as shown in Figure 3) were originally identified in a previous report (NASA, 2013) and would be located on previously undisturbed land (i.e., the routes would not follow an existing ROW). A review of the topographic profile of the routes determined that Middle Route A is suitable for construction of an aerial conveyor. However, these routes were eliminated from further consideration because they would not reach the preferred rail site and they consist of undisturbed land, which would result in greater potential for adverse effects on biological and cultural resources compared to other routes that have been previously disturbed. Middle Route B was also eliminated from further consideration, because the rise and slope angle of some sections of the route are higher than the maximum allowed for the transported material. These two routes were not analyzed in further detail for this report.

North American Cutoff Road

This route would be located along North American Cutoff Road, an existing privately owned road located near the northeast portion of the SSFL site. This route was identified as the best route for an aerial conveyor because of the regular, gradual slope of the route. The routes identified along

North American Cutoff Road for the overland conveyor and aerial conveyor technologies differ based on the topographical and road radius design limitations specific to each technology. The overland conveyor route would follow North American Cutoff Road to Box Canyon Road to Santa Susana Pass Road. The aerial conveyor, which requires a linear alignment, would follow North American Cutoff Road for approximately 2,000 feet and then would deviate from the roadway alignment through undisturbed land for approximately 8,000 feet to Rail Site 2B as shown in Figure 4.

When soil cleanup activities are complete and the aerial conveyor is no longer needed for operation, the conveyor system would be decommissioned.

2.1.3 Transfer Sites

Four potential transfer sites (one truck transfer site and three rail transfer sites) were considered for evaluation: Truck Site 1, Rail Site 1, Rail Site 2A, and Rail Site 2B (see Figure 3). Truck Site 1 was selected for analysis after Edison Road was identified as a potential conveyor route.

Only Rail Site 2B is evaluated further in this analysis. Other potential rail sites identified in a previous report (NASA, 2013) were considered as well, but were determined to be less desirable from an operational and site layout perspective or completely infeasible altogether in terms of either locational issues or lack of connectivity with a viable and direct conveyance route from the SSFL site.

The volume of material to be handled and the rate at which it would be generated is a key consideration. For this feasibility analysis, it has been assumed that a total volume of approximately1,685,000 bank CY of contaminated soil would need to be shipped by rail. As described previously in Section 1.5, this quantity of soil removal is based on the assumption that overall soil removal at SSFL would begin while the selected potential transportation option is being planned, permitted and constructed (it is estimated that approximately 822,000 bank CY would be hauled form the SSFL site via Woolsey Canyon Road during the approximately 45 months that the selected option would be developed). This material would arrive at the railcar loading site at a rate ranging between 413 CY per day and 1,027, CY per day. Material density is assumed to be approximately 1.5 tons per bank CY (i.e., density of the soil in-place, prior to excavation) for calculation purposes. In the case of soil, railcars would likely reach their maximum weight capacity before they reach the maximum volumetric capacity, so the expanded volume of loose soil (as opposed to the bank condition) is not expected to affect railcar capacity. Once cleanup at the SSFL site is complete, the railcar loading infrastructure would be removed and the site restored to its original condition.

Soil would be excavated, loaded into trucks, transported a short distance onsite, and stock-piled at the conveyor feed point. The material would be conveyed from the stockpile to the truck or rail loading facility. At the truck or rail loading facility, soil would be deposited from the conveyor into a hopper that would directly load trucks or gondola rail cars, which would subsequently be covered with tarps or lids. The conveyor outlet would remain stationary, while gondola cars

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would be moved in groups of 5 to 10 cars by a railcar mover (of the type commonly found at industrial facilities) under the conveyor outlet.

The railcar loading area, specifically the location where the conveyor would discharge into the gondola cars, could be enclosed in a building or shed to prevent the escape of dust. There is flexibility in the design of the loading system; the loading shed could operate at negative pressure or with a wetting/misting system, ensuring no dust would escape during the loading process.

It would be possible for a hybrid configuration to be employed, in which a conveyor moves soil from SSFL to the rail loading site. At the loading site, the conveyor would deposit soil in shipping containers, which would then be loaded onto Articulated Bulk Container (ABC) railcars. This would increase the amount of handling for the soil, but offers flexibility because not all destination disposal sites are capable of receiving gondola cars. It would also increase capital costs by approximately $800,000.

2.1.3.1 Truck Site 1

Truck Site 1 (see **Figure 8**) would be constructed on a 4.7-acre portion of a 15-acre parcel. The site is relatively flat and vacant and is covered with grass. Several trees are located along a portion of the western boundary of the site that is being considered for use and in the southeastern portion of the site that is not being considered for use by the project. It is bounded on the north by a parking lot, on the east by Tapo Canyon Road, and on the south and west by open space. There are no structures on the site.

2.1.3.2 Rail Site 1

Rail Site 1 is a relatively flat, roughly rectangular site that is largely vacant. It is bounded on the west by Kuehner Drive, on the north by Smith Road, on the south by the railroad tracks, and on the east by an existing, privately owned warehouse property. Several small structures and mobile homes are onsite, so possible relocation of residents would be required.

It has been assumed that the entire vacant parcel at the corner of Kuehner Drive and Smith Road would be purchased for the project. This site is also closest to the residential neighborhood on the west side of Kuehner Drive, as well as residences on the south side of the tracks.

As shown in **Figure 9,** Rail Site 1 involves five short loading tracks. For a container and ABC car scenario, these tracks would be surrounded by pavement to allow truck and rubber-tired gantry (RTG) access along each track. If conveyor loading were used, the loading shed could be located near the turnout separating the loading tracks, or a separate track could be constructed specifically for the loading shed. If only gondola cars were used, with no need to accommodate trucks and RTGs, the tracks could be spaced more closely together. It may be possible to add sufficient tracks so an empty train could also be accommodated while a second train was being loaded, though this possibility has not been evaluated in detail.

From an operational perspective, Rail Site 1 offers the least flexibility and highest operating costs. It also requires a railcar mover to be located onsite in order to build trains ready for pick-up or to distribute empty cars onto the loading tracks.

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At Rail Site 1, there would be insufficient area for operations to allow for drop-off of an appreciable number of empty cars when loaded cars are onsite waiting departure. This suggests that an empty train would have to be dropped off one day, and UPRR would store the locomotives at its remote Van Nuys or Oxnard yards and then return several days later to pick up the loaded train. Alternately, an empty train would be stored in a UPRR yard until the loaded train was picked up and transported to the disposal site. At that time, there would be empty tracks available in which to place the empty cars (which would be brought from the UPRR yard by a second set of locomotives). Because of the extra switching, poor utilization of locomotives, and necessity to use tracks in UPRR's yard, having operations at Rail Site 1 would entail higher costs and less flexible operations of the sites evaluated.

Because of the additional logistics required for Rail Site 1, the processing rate of materials would be constrained due to complex scheduling of rail car movements. Therefore, this site was not considered for further analysis.

2.1.3.3 Rail Site 2A

Rail Site 2A, which is a long, linear site located along the south side of the railroad tracks (see Figure 3). This site is similar in configuration to Rail Site 2B and is located directly adjacent to Rail Site 2B on the south side of the railroad tracks depicted in **Figure 10**, along a hillside. This site was not considered for further analysis because development of Rail Site 2A for rail transfer activities would involve placing tracks along a large hillside, which would substantially increase development costs, largely due to the need for retaining walls. The additional cost of walls and associated excavation to provide space for the required siding (a low-speed track section distinct from a running line or through route such as a main line or branch line or spur) could add as much as $2 million to $10 million to the capital construction costs.

2.1.3.4 Rail Site 2B

Rail Site 2B is evaluated further in this analysis. This transfer site is a long, linear site on the north side of the railroad tracks, varying in width from approximately 40 feet to as much as 150 feet, extending from the Kuehner Drive overpass to approximately the entrance to Tunnel 26. It is bounded on the north by a private warehouse, a movie set location, and Corriganville Park. On the south it is bounded by the railroad tracks. The conceptual layout of Rail Site 2B is shown in **Figure 10**. Access to this site is from Smith Road, a local street that is lined with single family residences. Due to the size of this local roadway, proximity of residences (within 25 feet), and the size and configuration of this site, transport of clean backfill by truck to this site for conveyance to the SSFL site was considered infeasible for this site due to potential air quality, noise, and traffic impacts related to increased truck traffic on this local road.

2.1.4 Other Technologies Considered

Other conveyance technologies were considered for this analysis, and were evaluated in earlier analysis efforts based on carrying capacity, general applicability to terrain, distances, and surrounding land uses. Several potential methodologies and options were presented by attendees of the August 2014 public meetings. These options, as well as the reasons for deciding not to evaluate the potential options in greater detail in this analysis, are presented in **Table 2-3**.

626004038
626004049
626004047
626035111
626035112
To SR-118
Tapo Canyon Rd
626005112
626005116
626005117
626005107
626005111
common
626005110
626005208
626005203
common
Guardian St
626005209
CONVEYOR DISCHARGE / TRUCK LOADING STATION
EDISON ROAD OVERLAND CONVEYOR
OPTIONAL CLEAN BACKFILL STOCKPILE
Utilized parcel portion
Unutilized parcel portion
626005206
626005204
685005101
626005205
ARROYO SIMI
opnspc
685005102
685005103
685005121
685005104
Parcel of Interest for Truck Site 1
Parcel Boundary/APN
Proposed SSFL Haul Truck Route
Edison Road Overland Conveyor
Stream/Drainage
0
260
Feet

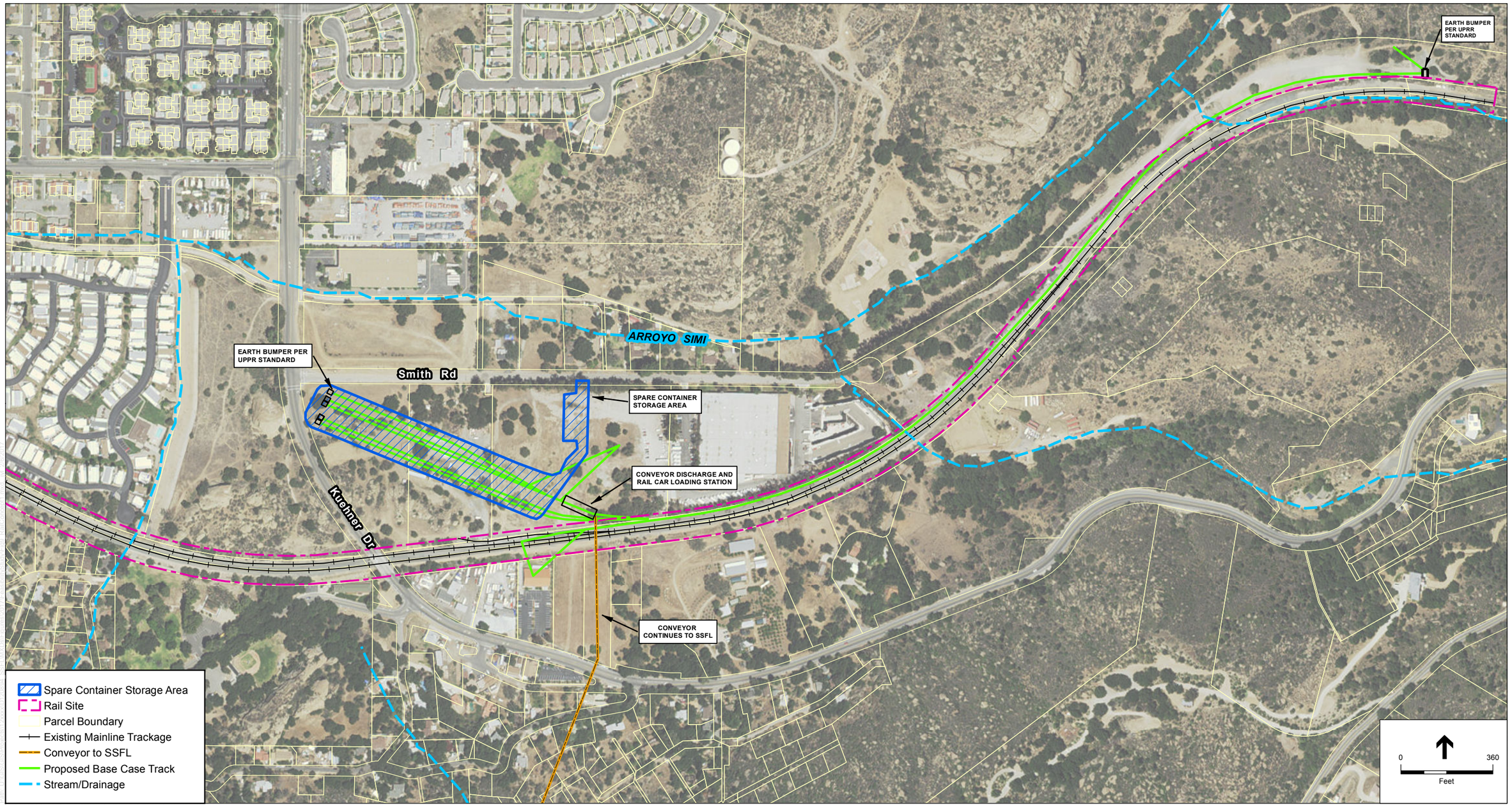
Path: U:\GIS\GIS\Projects\12xxxx\D120894_SSFL\MXDs\Figures\2017\FeasibilityStudy\Fig8_TruckSite1.mxd jvl 2/3/2017

SOURCE: ESRI, ESA; USGS

Santa Susana Field Laboratory. 120894

Figure 8

Truck Site 1

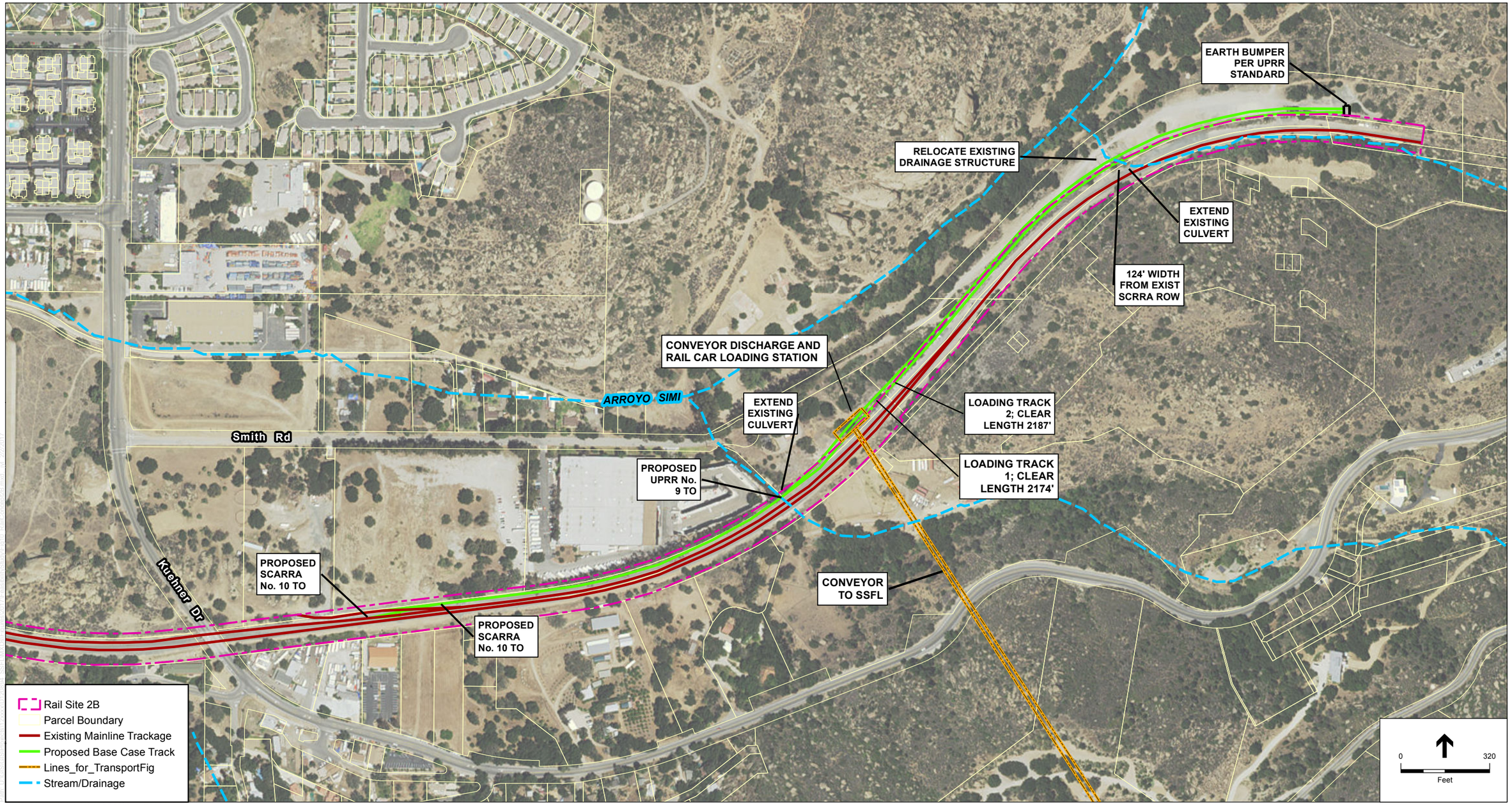


SOURCE: ESA; USGS; KOA 2015

Santa Susana Field Laboratory. 120894

Figure 9

Rail Site 1 Conceptual Layout



SOURCE: ESA; USGS; KOA 2015

Santa Susana Field Laboratory. 120894

Figure 10

Rail Site 2B Conceptual Layout

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TABLE 2-3
OTHER POTENTIAL OPTIONS CONSIDERED

Technology	Analysis
Bi-modal canister	This potential option would require truck traffic to travel along Woolsey Canyon Road and would not eliminate or reduce the number of trucks accessing local roadways and would not reduce local air emissions or traffic volumes in residential areas, thus this potential option was not considered.
Helicopter / Air Lift / Cargo Plane / Blimp	Not feasible due to general logistics of loading and offloading aircraft as well as cost of air travel.
Slurry pipe	Use of a slurry pipe was determined to be infeasible due to logistics of mixing contaminated soil with water and creating, managing and disposing of contaminated water.
Truck to rail	This potential option would require all truck traffic to travel along Woolsey Canyon Road (or a new road to be constructed on the north side of the SSFL site) and would not eliminate or reduce the number of trucks accessing local roadways and would not reduce local air emissions or traffic volumes in residential areas, thus this potential option was not considered.
Tunnel	Not feasible due to ground disturbance required to implement.
Conveyor to rail	Considered in this report.
Natural gas or non-diesel trucks	While alternative fuels and associated alternative-fueled equipment are available, such fuels and equipment are not feasible for implementation for this project. Natural gas is available in sufficient quantities, but the equipment available is currently limited to a few manufacturers or still in the prototype stage. Given the insufficient availability of natural gas fueled trucks for hauling SSFL materials to the appropriate receiver facilities, this alternative is not feasible for this project. In addition, electric engines were considered; however, due to the daily relocation of equipment throughout the SSFL site and the need for trucks to travel long distances away from the SSFL site, lack of charging stations in proximity to daily cleanup locations, and downtime for recharging, electric equipment was determined to not be feasible for this project.
Rail-Veyor	The Rail-Veyor technology was considered but screened-out of the analysis. A Rail-Veyor is a proprietary compact autonomous train system that operates on its own elevated track system. This technology would be constructed as a track system that curves and rises/falls with the local topography and materials would be carried on individual sets of cars as trains that use the rail system for propulsion and guidance. This technology is not considered to be feasible because of the need to establish curving track on significant vertical grades present in the vicinity of the SSFL site, and the limited capacity that could be provided due to the non-continuous flow operation (via single-trains running on single tracks) unlike what a conventional ground-based conveyor could provide.
Barges	Not feasible due to lack of access to waterways at or near the SSFL site.
Conveyor to truck	Considered in this report.
Existing spurs	Considered in this report.
Rail from project site	It would not be feasible to build a railway to a rail transfer facility on the SSFL site due to the significant vertical grades present in the vicinity of the site. In addition, this option would have limited capacity due to the non-continuous flow operation (via single-trains running on single tracks) unlike what a conventional ground-based conveyor could provide.
Sky-way or aerial tram	Considered in this report.
Truck and container option	As described below in more detail, this potential option is not considered for further analysis because it would require use of existing roadways to haul contaminated soil to Rail Site 2B and would not avoid adding vehicle traffic to local residential roads.
Super scooper	A super-scooper is an airplane that can load water into its payload area as it skims a water body for use in fighting wildfires. There are no known uses of this technology for soil transport.

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2.1.4.1 Truck and Container Option

If trucks are selected to move soil from SSFL to a rail loading site such as Rail Site 2B, soil would likely be loaded directly into open-top shipping containers mounted on truck chassis at the SSFL site. Covers would then be applied to the containers to prevent dust from escaping.

Trucks would then transport the containers the relatively short distance from the SSFL site to the rail loading site. Upon arrival at the rail loading site, the containers would be transferred to ABC railcars, a subset of a railcar type known as "articulated spine cars," using RTG cranes. Soil would remain inside the containers at all times. ABC railcars typically have a capacity of six loaded containers.

Containers would be 20 feet long, with an approximately 23-ton net capacity. Note that containers generally have a net capacity of approximately 32 tons, but the maximum gross weight of the trucks that move them between SSFL and the loading site would limit the load to approximately 23 tons. This equates to approximately 15 bank CY of soil per container. Empty railcars would remain parked on the loading tracks, while trucks carrying loaded containers would drive on a roadway next to the appropriate railcar. An overhead gantry crane would lift the container off the truck and place it on the railcar. Empty containers returning from the disposal site would be removed from the railcars in the same manner. The RTG cranes operate on asphalt or concrete runways, straddling the tracks and the adjacent truck roadways. These RTGs are commercially available from several manufacturers.

This potential option is not considered for further analysis because it would require use of existing roadways to haul contaminated soil to Rail Site 2B and would not avoid adding vehicle traffic and related air emissions to local residential roads. As discussed in Section 1.3 of this report, the purpose of this analysis is to identify feasible soil transport options that would reduce the potential impacts to traffic, noise, air quality, and safety related to increased truck traffic on Woolsey Canyon Road. Loading trucks to carry soil to a rail-transfer site via Woolsey Canyon Road would result in the same amount of truck trips as the proposed SSFL cleanup project and would not reduce any of these impacts.

2.2 Technical Evaluation

This section evaluates the technical, logistical, and practical feasibility of the Woolsey Canyon Road Truck Route and the four potential transportation options that remained after application of the screening process described in Section 2.1 of this report. An evaluation of the potential environmental constraints and potential adverse effects associated with each option is presented in Section 3.0.

The five options were evaluated for the following criteria:

- Required Land Acquisition or ROW
- Technological Feasibility
- Permitting Constraints

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- Implementation Schedule
- Construction Equipment and Workforce
- Cost

2.2.1 Woolsey Canyon Road Truck Route

Woolsey Canyon Road is the proposed truck route for the SSFL project which is evaluated in the PEIR. Haul trucks would travel to SR 118 or US 101 via the following roadways, shown in Figure 3 and Figure 4:

- Woolsey Canyon to Valley Circle Boulevard to Roscoe Boulevard to Topanga Canyon Boulevard (SR 27) to SR 118
- Woolsey Canyon to Valley Circle Boulevard to Lake Manor Drive to Valley Circle Boulevard to Plummer Avenue to Topanga Canyon Boulevard (SR 27) to SR 118
- Woolsey Canyon to Valley Circle Boulevard to US 101
- Woolsey Canyon to Valley Circle Boulevard to Roscoe Boulevard to Topanga Canyon Boulevard (SR 27) to US 101

2.2.1.1 Required Land Acquisition or Right-of-Way

The truck route via Woolsey Canyon Road to SR 118 or US 101 (shown as Routes #7A and #7B in Figure 3) would begin at the east gate of the SSFL facility and use public roadways via the roadways listed previously. Construction of new roadways or widening of existing roadways would not be necessary to establish use of these roadways for haul routes.

2.2.1.2 Technological Feasibility

Use of this route is technologically feasible, as the roadways currently exist and would not require any upgrades for use as a haul route.

2.2.1.3 Permitting Constraints

Long-term hauling along this route would require potential coordination with the City of Los Angeles and California Department of Transportation (Caltrans) for the occasional oversized load.

2.2.1.4 Implementation Schedule

No construction is necessary for this haul route; therefore, hauling activities could begin immediately upon DTSC approval of the SSFL PEIR and Program Management Plan, and acquisition of necessary permits and approvals to begin soil excavation activities. The schedule for implementation of this potential option is presented in **Table 2-4**.

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TABLE 2-4
WOOLSEY CANYON ROAD TRUCK ROUTE IMPLEMENTATION SCHEDULE

Task Name	Duration	Start	Finish
Certification of SSFL PEIR	1 day	December 2017	December 2017
Permitting/remedy decision documents	3 months	December 2017	February 2018
Operation	15 years	February 2018	November 2032

Note: The operational duration of 15 years is based on a range of 64 to 96 truck trips per day.

2.2.1.5 Construction/Decommissioning Equipment and Workforce

No construction is necessary for this haul route, so no additional equipment or workforce would be necessary. This haul route, which consists of a public roadway, would not be decommissioned upon completion of cleanup activities.

2.2.1.6 Cost

No capital costs would be incurred to use this as a trucking route, as no construction is required. As discussed in more detail in Section 4.0, the cost to transport soil by truck could be as much as $447 million[9] to transport contaminated soil from the site to disposal facilities and to transport clean backfill to the site over the approximate 15-year lifespan of the project. Local and State jurisdictions including the city of Simi Valley, the County of Los Angeles, the city of Los Angeles, and Caltrans, could require roadway maintenance payments. However, because the current pavement conditions and other details such as pavement thicknesses and roadway base depth are not known, the costs of maintenance that might be requested by jurisdictions are not known.

After the project is complete, Woolsey Canyon Road would not be decommissioned and would remain a useable public road.

2.2.2 Edison Road Truck Route

This potential option (shown as Route #9 in Figure 3) would be located along Edison Road, which is privately owned by multiple private owners and operated by SCE via an easement. This haul route would operate as a private road, with a controlled access point at the south end (at the SSFL site) and north end, where Edison Road would be extended to access Guardian Street. This route would not cross any public roadways before accessing Guardian Street.

9 Operating costs include loading trucks with excavation spoils, driving trucks to disposal facilities, emptying trucks at disposal facilities, and transporting clean backfill to the site. Operating costs for truck operations were based on typical costs for truck operations, based on actual contracts for recent construction projects. The total cost was derived by multiplying the average round trip distance from SSFL to disposal facilities for each type of waste (240 miles for non-hazardous, 620 miles for hazardous, and 900 miles for radiologic waste) by the volume of each type of waste to be transported by $0.17/mile. It is assumed that clean backfill would be picked up on the return trip to SSFL from the disposal facility. See Appendix B for more details.

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This roadway would be an improvement of the existing Edison Road, an unpaved single-lane facility. Because of the need to provide a roadway that is adequate for truck-turning radii, and the need for two-lane segments in some areas, the analyzed centerline of the potential truck hauling road does not necessarily overlap with that of the existing Edison Road. Long box trailer, or double trailer, loads would not be feasible for travel on this potential truck haul route. Shorter box trailers, flatbeds, truck-rail container loads, and dump trailers would be more likely candidates. The conceptual engineering of this roadway considered that some portions, where feasible, would have two lanes of travel, and some areas would have single lanes of travel based on the topography.

It is assumed for this option that a total of up to 96 trucks per day would be split between Woolsey Canyon Road and the new Edison Road to transport contaminated soils from the SSFL site to disposal sites and to transport clean backfill to the site.

2.2.2.1 Required Land Acquisition or Right-of-Way

All of the land required for this truck haul roadway would be acquired via easements or purchase of land for construction of the road and use for truck hauling activities for the duration of the SSFL project. This route traverses 14 parcels that are owned by four or more private owners, including Runkle Canyon LLC (subsidiary of KB Homes) and the American Jewish University. SCE currently operates Edison Road via an easement with the private land holders. SCE uses the road for inspection and maintenance of an electrical transmission line that parallels the road. To lease or purchase the parcels, negotiations would need to take place between the RPs and the private land owners. None of these parcels are currently for sale. The private land owners would need to be willing to sell or lease their parcels. Based on the current asking price of four other similar properties within 4 miles of the Edison Road Truck Route, it is estimated that the properties along the route would cost approximately $168,000 per acre to purchase. It is assumed that the highest asking price out of the four similar properties currently for sale would be the best cost estimate for the private land needed to construct the Edison Road Truck Route because the required lands are currently not for sale, which would allow the existing owners to request a premium on the estimated land value. Required negotiations with multiple land owners for long term easements would add a significant level of uncertainty to land acquisition. In addition, an access agreement with SCE would be necessary to operate and develop the road as a haul route. Copies of the real estate listings used to calculate this average are provided in Appendix A.

Total acreage assumed for implementing this truck haul corridor was based on conceptual engineering of the new roadway required to support long-term hauling by heavy-duty single-unit (non-articulated) trucks. As was calculated for the haul road cost estimates, a range of total disturbance was calculated, based on a one-lane road and a two-lane road, both graded and paved. For a 12-foot-wide roadway, the total disturbed area would be 84 acres. For a 24-foot-wide roadway, the total disturbed area would be 88 acres (the amount of disturbance is due to grading necessary to reconfigure the roadway and not the acreage of the roadway itself).

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2.2.2.2 Technological Feasibility

Improvement of this roadway is technologically feasible, but would require significant grading to provide a paved all-weather roadway usable by trucks without creating dangerous grade conditions or corners.

2.2.2.3 Permitting Constraints

Permits and other approvals required for implementation of the Edison Road Truck Route are anticipated to include, but are not limited to, those listed in **Table 2-5**, as well as potential coordination with the City of Simi Valley and California Department of Transportation (Caltrans) for the occasional oversized load. Required negotiations with such agencies/organizations would add a significant level of uncertainty to the ultimate approval of this truck route. Long-term hauling along this route would require potential coordination with the City of Los Angeles and California Department of Transportation (Caltrans) for the occasional oversized load.

TABLE 2-5
POTENTIAL PERMITS & APPROVALS FOR EDISON ROAD TRUCK ROUTE

Agency	Potentially Required Permit or Approval
Federal	
U.S. Army Corps of Engineers	• Clean Water Act Section 404 Permit for fill or discharge of dredged or fill material into waters of the United States
U.S. Fish and Wildlife Service	• Endangered Species Act Section 10 Incidental Take Permit for adverse effects on federally listed species • ESA Section 7 consultation and Biological Opinion
U.S. Department of Energy	• Supplemental National Environmental Policy Act (NEPA) Assessment
National Aeronautics and Space Administration	• Supplemental NEPA Assessment
State of California	
California Department of Toxic Substances Control	• Certification of PEIR
California Department of Fish and Wildlife	• Section 1602 Streambed Alteration Agreement for alteration of bed, bank, or channel (Waters of the State) • California Endangered Species Act Sections 2081(b) and (c) Incidental Take Permit for adverse effects on state listed species
California State Historic Preservation Officer	• Section 106 of the National Historic Preservation Act Consultation (by federal lead agency as applicable)
California State Water Resources Control Board	• National Pollution Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance.

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Agency	Potentially Required Permit or Approval
Regional/County	
Regional Water Quality Control Board	• Section 401 Water Quality Certification for streambed modifications • Waste Discharge Requirements
Ventura County Air Pollution Control District	• Rule 55 (Fugitive Dust) requirements during construction activities • Rule 74.29 Soil Decontamination Operations requirements • Authority to Construct, Permit to Operate
Ventura County Resources Management Agency, Environmental Health, Solid Waste Program	• Onsite Hazardous Waste Treatment/Tiered Permit by Rule • Waste disposal plans included in Corrective Action Implementation Work Plans
Ventura County, Resource Management Agency, Planning Division	• Tree Permit for removal, alteration, and/or construction within the Tree Protection Zone of protected trees • Zoning Clearances
Ventura County, Public Works Agency, Transportation Department	• Haul Route Plan, Construction Traffic Management Plan and/or Traffic Control Plan
Los Angeles County, Public Works Agency, Transportation Department	• Haul Route Plan, Construction Traffic Management Plan, and/or Traffic Control Plan
City of Los Angeles, Public Works, Department of Transportation	• Construction Work Site Traffic Control Plan • Haul Route Permit
Ventura County, Resource Management Agency, Watershed Protection District	• Watercourse Permit (as applicable to work performed in District jurisdictional channels)
Ventura County, Resource Management Agency, Division of Building and Safety	• Building and Grading Permits
Ventura County, Fire Protection Division	• Hazardous Materials Permit
City of Simi Valley	• Conditional Use Permit • Building and Grading Permits

2.2.2.4 Implementation Schedule

The schedule presented in **Table 2-6** shows that development of this potential option would take approximately 45 months to complete upon certification of the PEIR and approval of the SSFL project.

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TABLE 2-6
EDISON ROAD TRUCK ROUTE IMPLEMENTATION SCHEDULE

Task Name	Duration	Start	Finish
Certification of SSFL PEIR	1 day	December 2017	December 2017
Design	12 months	December 2017	November 2018
Environmental Review (CEQA/NEPA)	30 months	January 2018	May 2020
Land Acquisition	26 months	May 2018	May 2020
Permitting	4 months	June 2020	September 2020
Construction	12 months	September 2020	August 2021
Operation	11 years	August 2021	November 2032
Decommissioning	1 year	December 2032	November 2033

Notes: NA – Not Applicable
Several tasks could occur concurrently. For instance:

- Design could begin as soon as DTSC selects a potential option to implement.
- Environmental review includes background technical studies and surveys necessary to complete California Environmental Quality Act (CEQA) and NEPA) analyses.
- Land acquisition could begin as soon as DTSC selects a potential option to implement. NASA, DOE, and Boeing, who are the RPs for implementing the SSFL project, would need to demonstrate land control in their application to the County of Ventura for a Conditional Use Permit. Property acquisition would not be completed until the CEQA and NEPA documents prepared for the project are approved.
- The operational duration of 15 years is based on the rate at which soil would be excavated at the SSFL site.
- It is assumed that soil cleanup and offsite transport would continue via Woolsey Canyon while the Edison Road Truck Route is being planned, permitted and constructed.

2.2.2.5 Construction/Decommissioning Equipment and Workforce

Construction of this truck haul roadway is estimated to require the following construction equipment and employees:

- Four scrapers
- Four excavators
- Two bulldozers/backhoes
- Two motor graders
- One sheepsfoot compactor
- Ten dump trucks
- One set of paving equipment
- Four water trucks
- A crew of 36 workers (equipment operators, foreman/superintendent, grade checker, drivers, inspector construction manager)

2.2.2.6 Cost

The cost estimates developed for this potential option are based on initial conceptual engineering estimates for the technologies evaluated for this analysis. The final design of the roadway, if implemented, would determine the length and location of two-lane segments within the overall corridor.

As shown below in **Table 2-7** (see Appendix B for detailed development costs), the estimated total cost for development (planning, permitting, construction, and decommissioning) of this potential option is approximately $17 million.

TABLE 2-7
ESTIMATED COST TO DEVELOP EDISON ROAD TRUCK ROUTE

Item	Cost
Environmental Review (CEQA & NEPA)	$2,000,000
Land Purchase Price	$2,671,000
Road Construction*	$11,850,000
Permitting	$50,000
Decommissioning	$600,000
Total	**$17,171000**

See Appendix B for detailed development costs.

Operating costs based on per ton-mile transport costs were generally estimated based on the comparative basis of fuel costs, labor costs, equipment costs, tipping fees, and maintenance of the new road. It is estimated that operation (loading trucks with contaminated soil, transporting to of the Edison Road Truck Route would cost approximately $447 million (this cost includes $160 million for the first 45 months of operation using Woolsey Canyon Road while this alternative is developed, plus $287 million for 11 years of operating this alternative) .[10]

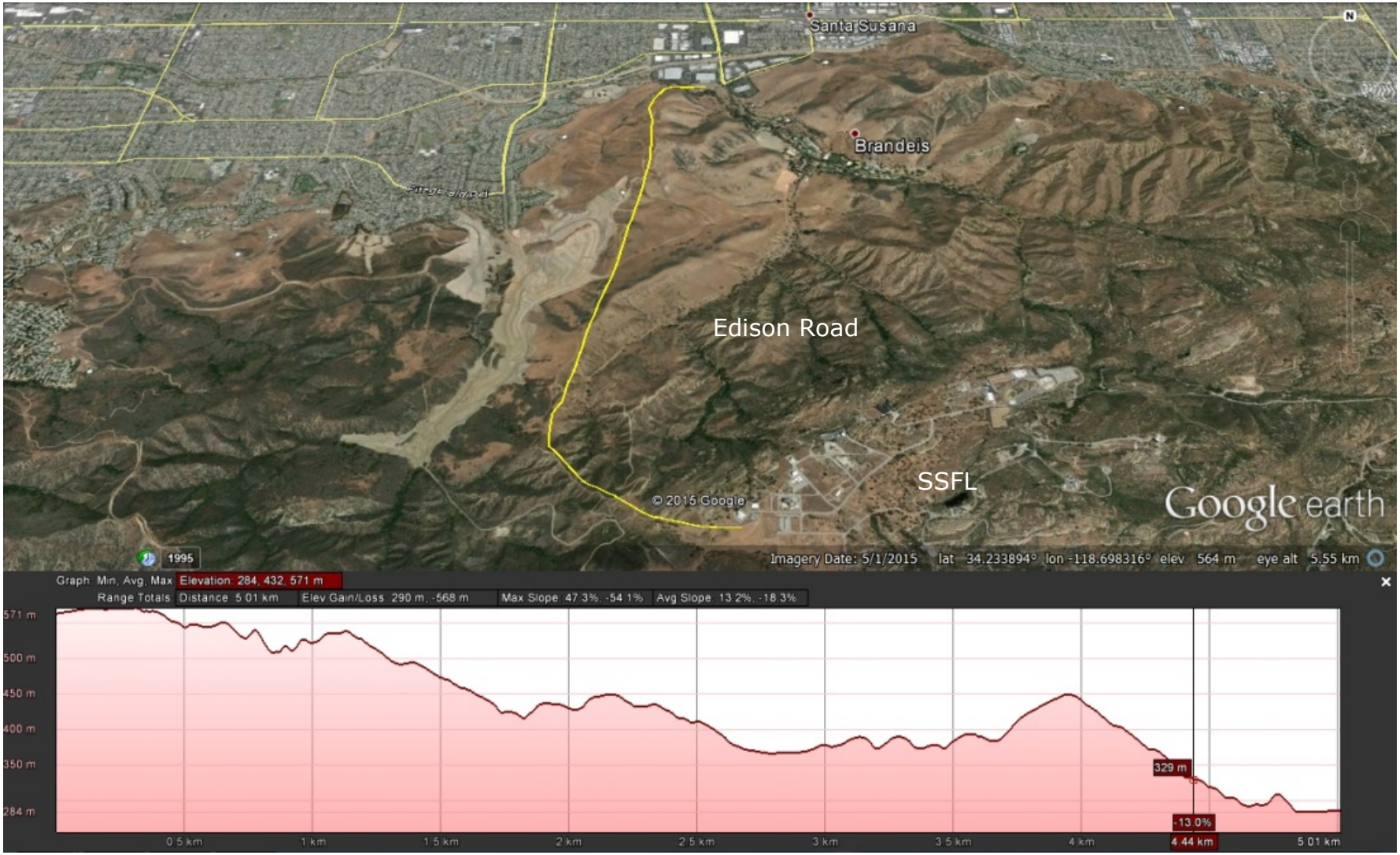
Edison Road is currently used by SCE as is for inspection and maintenance of its transmission line that is adjacent to the roadway. It is unknown at this time if land use agreements that would be negotiated with the land owner and SCE would require decommissioning of this roadway or not (the land owner and/or SCE might want to retain the paved roadway for access). Due to the uncertainty of potential future agreements with the land owner and SCE, this analysis assumes that the road would be decommissioned upon completion of the SSFL project.

2.2.3 Edison Road Overland Conveyor

This potential option consists of constructing an overland conveyor along Edison Road that would transport soil from the west side of the SSFL site to Truck Site 1. **Figure 11** shows the plan view of the conveyor route and cross-section of the terrain. The centerline of the route location may not always show the conveyor on the roadway. The intention is for the conveyor to follow the roadway as much as possible. The conveyor would not take over the road ROW or prohibit access. Edison Road would still be available to SCE for inspection and maintenance of its transmission line. The road would also be used as an access road for conveyor maintenance.

[10] Operating costs include loading trucks with excavation spoils, driving trucks to disposal facilities, emptying trucks at disposal facilities, and transporting clean backfill to the site. Operating costs for truck operations were based on wages and typical hourly costs for truck operations, based on actual contracts for recent construction projects. The total cost was derived by multiplying the average round trip distance from SSFL to disposal facilities for each type of waste (240 miles for non-hazardous, 620 miles for hazardous, and 900 miles for radiologic waste) by the tonnage of each type of waste to be transported by $0.17/mile. It is assumed that clean backfill would be picked up on the return trip to SSFL from the disposal facility. See Appendix B for more details.

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SOURCE: FL Smidth

Santa Susana Field Laboratory . 120894

Figure 11

Edison Road Plan View and Terrain Cross Section

As discussed in Section 2.1.2, this route was chosen for further detailed analysis because it provides relatively direct access from the SSFL site to a viable transfer site (Truck Site 1). A conveyor route in this corridor can be constructed to roughly follow the existing and disturbed ROW, providing access to the route for construction and maintenance, and the slopes along the corridor provide a more feasible construction scenario, compared to other conveyor routes considered.

This potential option would have the capability to convey clean backfill from Truck Site 1 to SSFL. This potential option would require an area of 0.8 acres for stockpiling clean fill (shown on Figure 8) as well as installation of a washing and drying system at the conveyor terminus at Truck Site 1. Installation of these features would increase the development cost of this option by approximately $11 million and the operational cost by approximately $8 million to account for handling the soil at Truck Site 1 and conveying it to SSFL instead of backfill being delivered by truck directly to the locations where fill is needed.

2.2.3.1 Required Land Acquisition or Right-of-Way

The conveyor system on this route would be 13,615 feet (2.58 miles) long, of which approximately 9,022 feet (1.7 miles) would be elevated and not on the road path. The pipe conveyor generally follows the existing road, although it would cross Edison Road approximately 20 times as a result of sharp corner radius and terrain constraints.

Standard elevated structure support spacing would be 80 feet, which would require approximately 114 support footings to be provided outside the road corridor. When the conveyor is located at ground level and on flat terrain, the panels would be directly mounted on concrete sleepers (supports) resting on the ground surface approximately every 8 feet. For elevated conveyor sections over road crossings, creeks, wildlife crossings, and other hazards, the panels would be mounted in fabricated trusses supported on pylons. Truss elements would be assembled on the ground to simplify installation and lifted into place.

Elevated sections provide a smooth conveying transition both horizontally and vertically between ground-mounted conveyor sections at a minimum required height. A standard elevated truss section includes a walkway on one side. It is conservatively estimated that approximately 60 to 75 percent of the conveyor's length would be composed of elevated sections. Although indeterminate until a site survey is completed, the amount of elevated structure would likely be substantially reduced in the final design when a more accurate road-following conveyor path can be defined.

The total disturbed land area for this conveyor system—assuming areas measuring 10 feet by 10 feet would be used for construction of footings—would be 11,400 square feet (0.02 acre). The final size of the footings would need to be determined from geotechnical data and depends upon factors such as load bearing capacity of the soil and seismic requirements.

All of the land required for this conveyor route (including the 4.7-acre Truck Site 1) would be acquired via easements or purchase of land for construction of the conveyor and use for soil conveyance and truck loading activities for the duration of the SSFL project. This route traverses

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14 parcels that are owned by four or more private owners, including Runkle Canyon LLC (subsidiary of KB Homes) and the American Jewish University. SCE currently operates Edison Road via an easement with the private land holder. SCE uses the road for inspection and maintenance of an electrical transmission line that parallels the road. An access agreement with SCE would also be necessary to operate and develop the road as a conveyor route. To lease or purchase the parcels, negotiations would need to take place between the RPs and the private land owners. None of these parcels are currently for sale. The private land owners would need to be willing to sell or lease their parcels. Based on the current asking price of four other similar properties within 4 miles of the Edison Road Truck Route, it is estimated that the properties along the route would cost approximately $168,000 per acre to purchase. It is assumed that the highest asking price out of the four similar properties currently for sale would be the best cost estimate for the private land needed to construct the Edison Road Overland Conveyor Route because the required lands are currently not for sale, which would allow the existing owners to request a premium on the estimated land value. Required negotiations with multiple land owners for long term easements would add a significant level of uncertainty to land acquisition. Copies of the real estate listings used to calculate this average are provided in Appendix A.

2.2.3.2 Technological Feasibility

The conceptual design of the conveyor route for this corridor has shown the technology would be feasible. The conceptual design considered vertical grades along the route, but detailed topography files were not used and engineering was not taken beyond an equivalent of 5 percent of total design. Geotechnical issues were not investigated for this engineering effort. Final engineering designs based on acquired/flown aerial photography and topographic maps, and geologic and property studies, would need to be conducted prior to final design.

Truck Site 1 is large enough for heavy-duty trucks to turn around onsite. This was analyzed through a general engineering review of the site. The site would need to be paved, and a structure would need to be built onsite to transfer remediation materials from a conveyor system to each truck. To bring clean soil back to the SSFL site as needed, the structure would also need to allow for this type of operation.

2.2.3.3 Rail Logistics

This route would terminate at Truck Site 1, where the conveyed material would be transferred into haul trucks for direct transport to disposal facilities and would not involve any transport by rail.

2.2.3.4 Permitting Constraints

Implementation of this potential option is anticipated to require the same permits identified for the Edison Road Truck Route, as shown in Table 2-5. Required negotiations with such agencies/organizations would add a significant level of uncertainty to the ultimate project approval.

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2.2.3.5 Implementation Schedule

The schedule presented in **Table 2-8** shows development of this potential option would take approximately 48 months to complete upon certification of the PEIR for the SSFL project.

TABLE 2-8
EDISON ROAD OVERLAND CONVEYOR IMPLEMENTATION SCHEDULE

Task Name	Duration	Start	Finish
Certification of SSFL PEIR	1 day	December 2017	December 2017
Design	12 months	December 2017	November 2018
Environmental Review (CEQA/NEPA)	30 months	January 2018	May 2020
Land Acquisition	26 months	May 2018	May 2020
Permitting	4 months	June 2020	September 2020
Construction	15 months	September 2020	November 2021
Operation	11 years	November 2021	November 2032
Decommissioning	13 months	November 2032	November 2033

Notes: Several tasks could occur concurrently. For instance:
- Design could begin as soon as DTSC selects a potential option to implement.
- Environmental review includes background technical studies and surveys necessary to complete CEQA and NEPA analyses.
- Land acquisition could begin as soon as DTSC selects a potential option to implement. The RPs would need to demonstrate land control in their application to the County of Ventura for a Conditional Use Permit. Property acquisition would not be completed until the CEQA and NEPA documents prepared for the project are approved.
- The operational duration of 15 years is based on the rate at which soil would be excavated at the SSFL site and assumes that soil would be transported via Woolsey Canyon Road, while the Edison Road overland conveyor route is being planned, permitted and constructed.

2.2.3.6 Construction Equipment and Workforce

Construction of this conveyor route is estimated to require the following construction equipment and employees:

Conveyor

- Two mobile hydraulic cranes
- Two portable welders
- Four service trucks
- One front-end loader
- Two bulldozers
- One backhoe
- One grader
- A crew of 12 workers

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Truck Site 1

- Three front end loaders / backhoes
- Two graders
- Scraper
- Two excavators
- Twenty dump trucks (10 CY)
- Two sheepsfoot compactors
- Two roller compactors
- Curb and gutter cast machine
- Twenty pickup trucks
- Auger
- Truck mounted crane
- A crew of 30 workers

2.2.3.7 Cost

The cost estimates developed for this conveyor system included the elements of conveyor support and elevated truss sections, gravity belt take-up system, drive system, idlers, belt cleaners, conveyor infeed, discharge, controls, instruments, security, maintenance. The estimated costs to develop the Edison Road Overland Conveyor Route and Truck Site 1 are provided in **Table 2-9**.

TABLE 2-9
ESTIMATED COST TO DEVELOP EDISON ROAD OVERLAND CONVEYOR

Item	Cost
Environmental Review (CEQA & NEPA)	$2,000,000
Land Purchase Price	$3,696,000
Conveyor Construction	$56,052,000
Truck Site Construction	$5,894,000
Permitting	$50,000
Decommissioning	$12,389,000
Total	**$80,085,000**

Construction costs are estimated at +50/-30 percent.
See Appendix B for detailed development costs.

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The operating cost for this potential option is estimated on the basis of cost of power, operator and maintenance labor, repair parts, truck transport to landfills, tipping fees, and transport of backfill. It is estimated that the total operational cost of this potential option for the life of the project would be $464 million (this cost includes $160 million for the first 45 months of operation using Woolsey Canyon Road while this alternative is developed, plus $304 million for 11 years of operating this alternative)[11].

When soil removal cleanup activities are complete and the overland conveyor is no longer needed for operations, the conveyor system would be decommissioned.

2.2.4 North American Cutoff Road Overland Conveyor

This route was chosen for further evaluation for the following reasons:

- The corridor has a northern terminus at Rail Site 2B (see Figure 4).
- Nearly continuous existing roadway from the loading point to loadout site, reducing the amount of required corridor civil works and elevated conveyor sections.
- Relatively short conveying distance.
- Avoids major industrial and residential areas.
- Corridor vertical inclinations are within pipe conveyor capabilities.

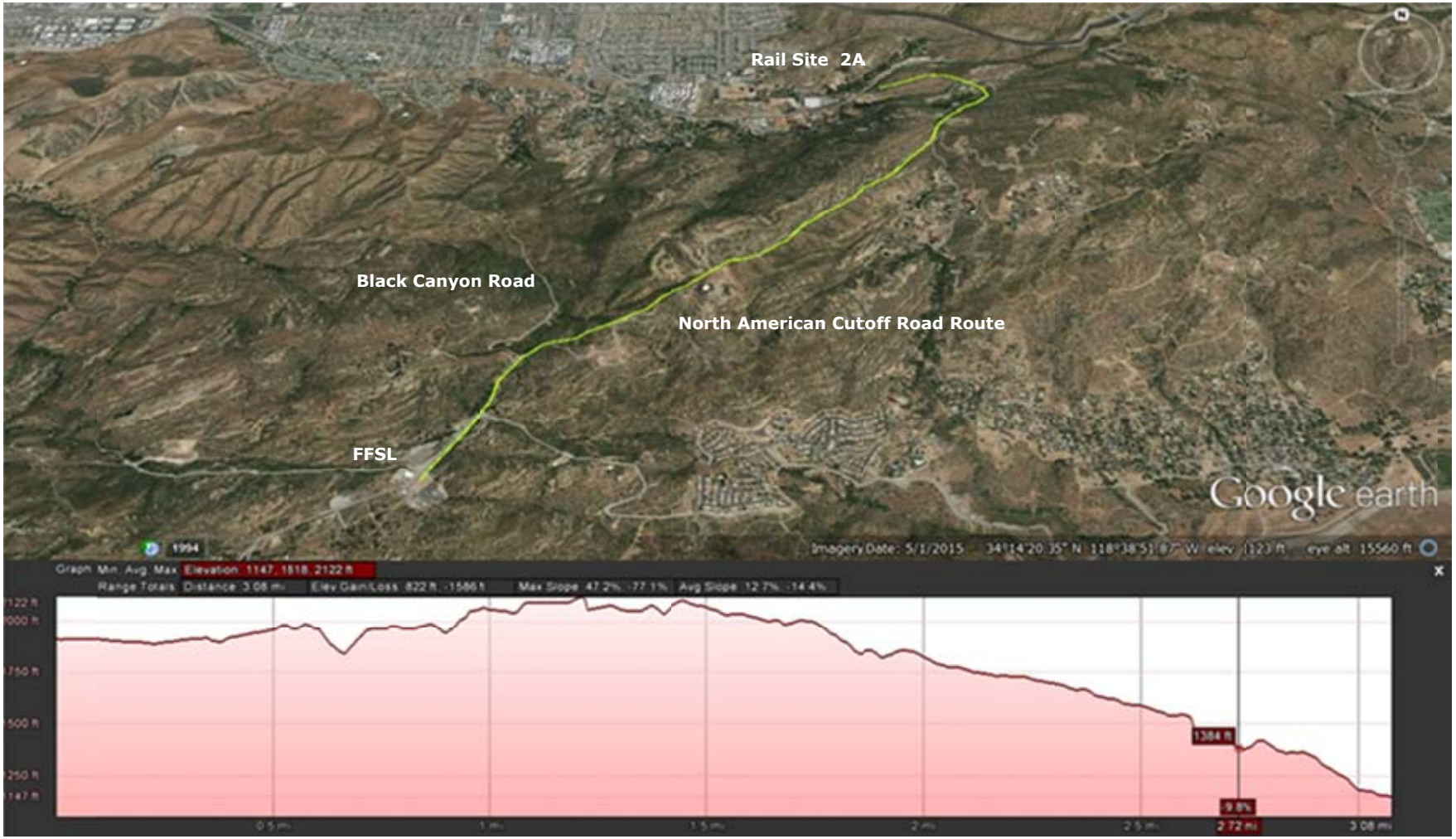
An initial 165-foot length of conveyor would be required for material loading and to fully enclose the pipe at the tail end of the conveyor. Once enclosed, the pipe conveyor route follows along the western side of Facility Road until it reaches the intersection of Black Canyon Road and North American Cutoff Road. The conveyor would cross over Black Canyon Road on an elevated structure and then continues along the northern side of North American Cutoff Road.

Figure 12 shows the plan view of the conveyor route and cross section of the terrain. The centerline of the route does not exactly follow the road ROW, but the conveyor would follow the roadway as much as possible.

The pipe conveyor route leaves the road grade in two more sections where the road curve radius is greater than the design radius of the pipe conveyor. Elevated structures would be used to cross two smaller ravines prior to reaching the upper grade section.

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[11] Operating costs include loading trucks with excavation spoils, transporting soil to conveyor loading area, loading the conveyor, loading trucks for transport to disposal facilities, driving trucks to disposal facilities, emptying trucks at disposal facilities, and transporting clean backfill to the site. Operating costs for truck operations were based on wages and typical hourly costs for truck operations, based on actual contracts for recent construction projects. The total cost was derived by multiplying the average round trip distance from SSFL to disposal facilities for each type of waste (240 miles for non-hazardous, 620 miles for hazardous, and 900 miles for radiologic waste) by the volume of each type of waste to be transported by $0.17/mile. Costs for maintaining the roadway for 11 years (approximately $577,000) were included in the development cost estimate. See Appendix B for more details.



SOURCE: FL Smidth

Santa Susana Field Laboratory . 120894

Figure 12
North American Cutoff Road Plan View
and Terrain Cross Section

Once the upper elevation section is reached, the pipe conveyor crosses over North American Cutoff Road and primarily continues along the south side of the road. Whenever the conveyor route must leave the road grade, the conveyor is supported on elevated structures.

The final section of the road continues along the south side of North American Cutoff Road until the paved Box Canyon Road is reached. The conveyor crosses over the North American Cutoff Road, a private road, and the Santa Susana Pass Road, all on elevated structures. Once across Santa Susana Pass Road, the conveyor declines rapidly across previously undisturbed land and terminates at Rail Site 2B.

2.2.4.1 Required Land Acquisition or Right-of-Way

Conveyor Route

The conveyor system on this route would be 16,372 feet (3.10 miles) long, of which approximately 9,823 feet (1.86 miles) would be elevated (from 1 to 10 feet off the ground and 20 feet over road crossings) and not on the road path. The pipe conveyor generally follows the existing road, although it crosses the road in some locations because of sharp corner radius and terrain constraints.

Standard elevated structure support spacing is 80 feet, which would require approximately 204 support footings to be provided outside of the road corridor. The total disturbed land area for this conveyor system—assuming 10-foot by 10-foot areas would be used for construction of footings—would be 20,400 square feet. The size of the footings would need to be determined from geotechnical data and depends upon such things as load bearing capacity of the soil and seismic requirements.

This conveyor route traverses 13 parcels that are either owned by private owners or administered by local government entities, including Ventura County, Rancho Simi Recreation and Parks District, and the Mountains Recreation and Conservation Authority. To lease or purchase the parcels, negotiations would need to take place between the RPs and the private land owners and government land administrators. These parcels are currently not for sale. The land owners/administrators would need to be willing to sell or lease their parcels. Based on the current asking price of four other similar properties within 1 mile of this route, it is estimated that the properties along the route would cost approximately $168,000 per acre to purchase. It is assumed that the highest asking price out of the four similar properties currently for sale would be the best cost estimate for the private land needed to construct the North American Cutoff Road Overland Conveyor because the required lands are currently not for sale, which would allow the existing owners to request a premium on the estimated land value. Required negotiations with multiple land owners for long term easements adds a significant level of uncertainty to land acquisition. Copies of the real estate listings used to calculate this average are provided in Appendix A.

Rail Site 2B

The land area for the rail transfer site and the related new rail siding length and width would total 11.9 acres. A proportion of the site would entail the purchase of private land, and the remainder would require lease or purchase of railroad ROW.

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This rail site occupies seven parcels that are owned by unnamed private land owner(s). To lease or purchase the parcels, negotiations would need to take place between the RPs and the private land owners. None of these parcels are currently for sale. The private land owners would need to be willing to sell their parcels, should the RPs seek to purchase the land. Based on the current asking price of four other similar properties within 1 mile of this rail site, it is estimated that the properties along the route would cost $168,000 per acre to purchase. Copies of the real estate listings used to calculate this average are provided in Appendix A.

2.2.4.2 Technological Feasibility

Conveyor Route

The conceptual design of the conveyor route for this corridor shows the technology would be feasible. The conceptual design considered vertical grades along the route, but detailed topography files were not used and engineering was not taken beyond an equivalent of 5 percent of total design. Geotechnical issues were not investigated for this engineering effort. Final engineering designs based on site-specific survey and topographic maps, and geologic and property studies, would need to be conducted prior to final design.

Rail Site 2B

Based on the track configuration suggested at the rail loading site, the maximum train length would be approximately 3,900 feet. At either site, the controlling length is the distance between the turnout that connects the loading tracks to the existing SCRRA siding and the end of the track, near the tunnel (at Site 2B, this is approximately 3,900 feet; at Site 1, it is slightly less). In this distance, a single train can be "built" by combining loaded cars from individual loading tracks. Once a train is built, locomotives would couple-on to the west end and pull the train out of the loading area.

This available length would be able to accommodate a train of approximately 70 gondola cars containing approximately 7,350 tons of material, or approximately 4,900 bank CY of soil per train. If ABC cars were used, this track length would accommodate a train of approximately 41 ABC cars, holding 245 20-foot bulk containers, or approximately 5,640 tons of material, or approximately 3,760 bank CY of soil per train.

These quantities are approximate, dependent upon the empty weight of the cars used, the soil density, the weight of the covering system, the final track geometry, space required for locomotives, operational considerations, and other factors.

Depending on the operational patterns of SCRRA and UPRR, and the level and timeliness of service desired (which affects the cost of service) the track configuration at Site 2B could allow for the cars on four tracks (rather than on just two tracks, as has been assumed) to be loaded in the facility and subsequently assembled into a longer train by UPRR crews just prior to departure. This would require UPRR train crews to use the SCRRA siding for switching. However, it would essentially double the capacity of each train. Whether both railroads would allow this use of their existing infrastructure would need to be explored further.

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Because of the need to allow space for locomotives (which are only onsite during arrival and departure operations, but not necessarily during loading operations), the possible train lengths indicated here are less than the sum of the individual track capacities indicated on the conceptual plans. The additional loading track length would be used to store spare railcars, railcars needing repair, etc., at the extreme end of each track. Depending upon the final scale of the operation and scheduling flexibility, it may be beneficial to have separate short tracks for such repair work.

Assuming soil would be delivered to the loading site at a rate between approximately 413 and 1,027 bank CY per day, one train per week would need to depart the loading facility.

2.2.4.3 Rail Logistics

Common to nearly all rail operations is the need to avoid interrupting main line operations with the switching of railcars on the main line. This premise drives the track configurations and operational patterns at the site.

The main line at this location is owned and dispatched by the SCRRA (the agency that operates Metrolink), which operates many high-priority passenger trains. SCRRA effectively controls the ability of freight trains to access industries along the line. Any new freight operations would be required to comply with SCRRA's operational requirements to ensure uninterrupted passenger train operations.

The freight service on this line is provided by a separate entity, UPRR, which owns the franchise to provide freight service on this portion of SCRRA's tracks. Thus, in addition to meeting SCRRA's requirements, track configurations and switching operations must also meet UPRR's requirements. UPRR has indicated support of the concept of using this track for loading and shipping contaminated soil from SSFL and stated that approval from UPRR would be subject to formal review of a finalized transportation and public outreach plan (UPRR, 2016).

Concepts for Rail Transfer Site 2B keep freight switching off the main line by constructing a new lead track parallel to the main line. Based on aerial imagery, there appears to be adequate space for such a track. ROW acquisition may be required. This track would allow trains in the yard area to make "back-and-forth" switching movements required for loading without occupying the main line.

The lead track is accessed only from a turnout configured to allow eastbound trains to enter the site. This configuration was selected because, without detailed survey of the track alignment west of the tunnel portal, significant reconfiguration of the existing tracks would appear to be required in order to allow a train to enter either site from the east. This is an important consideration, since it limits the manner in which UPRR trains can access the site.

Empty trains arriving from the east (Van Nuys) can arrive at the switch to the site and then back-in to the site. However, because of the geometric limits to the track configuration, the locomotives would only be able to couple-on to the west end of the train. Thus, loaded trains would be required to pull out of the facility pointed westbound (with the locomotive at the front of the train). The locomotives would then park the loaded cars in the siding at Rail Site 2B to

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enable the locomotive to "run around" the train on the main line, in order to get to the east end of the train and enable an eastbound departure. This operation would require a great deal of main line and siding occupancy, and, while not anticipated could only be performed at night, when passenger trains do not operate and there are relatively few freight trains.

Under a more likely scenario, trains may need to depart Rail Site 2B westbound, and proceed as far west as UPRR's Oxnard yard. At Oxnard, locomotives would be moved to the other end of the train (run around the train), thus allowing the train to proceed eastbound (and passing by the loading site) to its final destination. This would increase operational complexity and costs, but may be necessary to avoid switching on the siding and main line.

2.2.4.4 Permitting Constraints

Implementation of the North American Cutoff Road Conveyor Route and Rail Site 2B is anticipated to require the same permits identified for the Edison Road Truck Route, as shown in Table 2-5. However, this potential option would also require access easements with the Mountains Recreation and Conservation Authority, and Rancho Simi Recreation and Park District, as well as permits from the County of Ventura. Required negotiations with such agencies/organizations would add a significant level of uncertainty to the ultimate project approval process and schedule.

UPRR would also ultimately require agreement with commercial terms (i.e., freight rates). Prior to entering this negotiation, it is necessary to know the destination; the railcar type; whether railcars would be supplied by the railroad or private cars would be purchased or leased; the length of train; the weight of each train; the travel time desired to the destination; the level of hazard of the cargo; the frequency of service; and the operational characteristics of the service.

SCRRA rarely deals with new freight customers, and would require at least 30 percent, 60 percent, and 100 percent design submittals for approval. SCRRA approval is critical since they own the tracks, provide passenger service, and dispatch the trains (though UPRR has freight rights in this area). The concept is predicated on a connection with SCRRA track and signal systems, and also use of a portion of SCRRA/Ventura County property, likely by lease or easement. The overall duration of obtaining railroad access and freight haulage agreements is estimated to be 4 to 8 months—this process would occur during the 15-month construction period.

2.2.4.5 Implementation Schedule

The schedule presented in **Table 2-10** shows development of this potential option would take approximately 48 months to complete upon certification of the PEIR for the SSFL project.

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TABLE 2-10
NORTH AMERICAN CUTOFF ROAD OVERLAND CONVEYOR IMPLEMENTATION SCHEDULE

Task Name	Duration	Start	Finish
Certification of SSFL PEIR	1 day	December 2017	December 2017
Design	12 months	December 2017	November 2018
Environmental Review (CEQA/NEPA)	30 months	January 2018	May 2020
Land Acquisition	26 months	May 2018	May 2020
Permitting	4 months	June 2020	September 2020
Construction	15 months	September 2020	November 2021
Operation	11 years	November 2021	November 2032
Decommissioning	13 months	November 2032	November 2033

Notes: Several tasks could occur concurrently. For instance:
- Design could begin as soon as DTSC selects a potential option to implement.
- Environmental review includes background technical studies and surveys necessary to complete CEQA and NEPA analyses.
- Land acquisition could begin as soon as DTSC selects a potential option to implement. The RPs would need to demonstrate land control in their application to the County of Ventura for a Conditional Use Permit. Property acquisition would not be completed until the CEQA and NEPA documents prepared for the project are approved.
- The operational duration of 15 years is based on the rate at which soil would be excavated at the SSFL site and assumes that soil would be transported via Woolsey Canyon while the North American Cutoff Road Overland Conveyor Route is being planned, permitted and constructed.

2.2.4.6 Construction Equipment and Workforce

Construction of this conveyor route is estimated to require the following construction equipment and employees:

Conveyor

- Two mobile hydraulic cranes
- Two portable welders
- Four service trucks
- One front-end loader
- Two bulldozers
- One backhoe
- One grader
- A crew of 12 workers

Rail Site

- One ballast regulator
- Two bulldozers
- One asphalt paver
- One compactor
- One crane
- Two dump trucks
- One excavator
- One forklift
- Two loaders
- One grader
- One railroad tamper
- A crew of 10 workers

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2.2.4.7 Cost

The estimated costs to develop the North American Cutoff Road Overland Conveyor Route and Rail Site 2B are provided in **Table 2-11**.

TABLE 2-11
ESTIMATED COST TO DEVELOP NORTH AMERICAN CUTOFF ROAD OVERLAND CONVEYOR

Item	Cost
Environmental Review (CEQA & NEPA)	$2,000,000
Land Purchase Price	$2,083,000
Conveyor Construction	$41,346,000
Rail Site Construction	$27,145,000
Permitting	$50,000
Decommissioning	$13,698,000
Total	**$86,322,000**

Notes:
Conveyor cost includes two-lane dirt road upgrade.
Construction costs are estimated at +50/-30 percent.
See Appendix B for detailed development costs.

The operating cost for this potential option is estimated on the basis of cost of power, operator and maintenance labor, repair parts, rail transport to landfills, tipping fees, and truck transport of backfill. It is estimated that the total operational cost of this potential option for the life of the project would be $672 million (this cost includes $160 million for the first 45 months of operation using Woolsey Canyon Road while this alternative is developed, plus $512 million for 11 years of operating this alternative). See Appendix B for more details about costs.

The costs presented here are the best estimate. Actual costs may vary due to the following variables:

- Destination (length of haul, railroad serving destination, congestion on lines, corridor capacity restrictions).
- Length and tonnage of each train (and thus train length capacities at both origin and destination).
- Responsibility for origination/destination switching.
- Whether intermediate switching is required.
- Fees for delivery of cars or trains by the railroad to a site where there is insufficient track space available to place the cars. In this scenario, the cars or train are returned to the yard of origin and the operator is charged.
- Desired quality of service (faster or more reliable services, where available, command a premium price).
- Frequency of service.

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- Ownership of railcars (railroad-owned, privately owned, private lease, type of lease, duration of lease, anticipated residual value, etc.).
- Speed of loading at the SSFL site and unloading at various destinations.

Without clarity on these variables, a likely cost to transport material by rail from Simi Valley would be approximately $0.10/net ton-mile. Assuming shipment to Clive, Utah, at approximately 900 rail miles (assuming one of the longer routes, of the multiple rail routing options available), the approximate range of rail shipping costs would be from $45/ton to $90/ton (to provide a conservative estimate, rail costs were developed using the $90 estimate).

Assuming shipment to Arlington, Oregon, at approximately 1,550 rail miles (assuming one of the longer routes, of the multiple rail routing options available), the approximate range of rail shipping costs would thus be from $78/ton to $155/ton (to provide a conservative estimate, rail costs were developed using the $155 estimate). Note that vertical clearance restrictions at tunnels may prevent double-stacked containers from transiting some of the shorter routes, though gondola cars would not be faced with any restrictions. Note that the final rail rates would be dependent on many factors, including the opportunity cost of capacity on a given route (that is, if all or even parts of a given route are congested, what other traffic might the potential traffic displace), cost of fuel, cost of railcars, overall demand for rail service (highly dependent upon overall economic conditions), and other variables, which can vary over time.

When soil removal cleanup activities are complete and the pipe conveyor is no longer needed for operations, the conveyor system and rail transfer site would be decommissioned.

2.2.5 North American Cutoff Road Aerial Conveyor

This section discusses a potential aerial conveyor route, from the east side of the SSFL site to Rail Site 2B on the east side of the study area. This route begins and ends at the same locations as the North American Cutoff Road Overland Conveyor described in Section 2.2.4 but follows a direct and linear route instead of the road itself (see Figure 4).

2.2.5.1 Required Land Acquisition or Right-of-Way

Aerial Conveyor Route

This conveyor route traverses 21 parcels that are either owned by one of five private owners or administered by one of two local government entities, including the Rancho Simi Recreation and Parks District and Mountains Recreation and Conservation Authority. To lease or purchase the parcels, negotiations would need to take place between the RPs and the private land owners/government land administrators. None of these parcels are currently for sale. The land owners/administrators would need to be willing to sell or lease their parcels. Based on the current asking price of four other similar properties within 1 mile of this route, it is estimated that the properties along the route would cost approximately $168,000 per acre to purchase. It is assumed that the highest asking price out of the four similar properties currently for sale would be the best cost estimate for the private land needed to construct the North American Cutoff Road Aerial Conveyor because the required lands are currently not for sale, which would allow the existing owners to request a premium on the estimated land value. Required negotiations with multiple

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land owners for long term easements adds a significant level of uncertainty to land acquisition. Copies of the real estate listings used to calculate this average are provided in Appendix A.

Rail Site 2B

As discussed previously in Section 2.2.4.1, the land area for the rail transfer site and the related new siding length and width would total 11.9 acres. A proportion of the site would entail the purchase of private land, and the remainder would require lease or purchase of railroad ROW.

This rail site occupies seven parcels that are owned by unnamed private land owner(s). To lease or purchase the parcels, negotiations would need to take place between the RPs and the private land owners. None of these parcels are currently for sale. The private land owners would need to be willing to sell their parcels should the RPs seek to purchase the land. Based on the current asking price of four other similar properties within 1 mile of this rail site, it is estimated that the properties along the route would cost $168,000 per acre to purchase. Copies of the real estate listings used to calculate this average are provided in Appendix A.

2.2.5.2 Technological Feasibility

This route was identified as the preferred route for an aerial conveyor system. In order to minimize the handling of contaminated material, soil would be discharged directly from the ropeway into a horizontal silo at Rail Site 2B. This configuration would minimize the surface area required for the station.

The conceptual design of the conveyor route for this corridor has shown the technology would be feasible. The conceptual design considered vertical grades along the route, but detailed topography files were not used and engineering was not taken beyond an equivalent of 5 percent of total design. Geotechnical issues were not investigated for this engineering effort. Final engineering designs based on acquired/flown aerial photography and topographic maps, and geologic and property studies, would need to be conducted prior to final design.

2.2.5.3 Rail Logistics

This conveyor route would link to Rail Site 2B. The conveyor would have a northern terminus at that site, and materials would be transferred to railcars via transfer facilities constructed at that site as described in Section 2.2.4.3.

2.2.5.4 Permitting Constraints

Implementation of this potential option is anticipated to require the same permits identified for the Edison Road Truck Route as shown in Table 2-5. However, this potential option would also require access easements with the Mountains Recreation and Conservation Authority, Rancho Simi Recreation and Park District, as well as permits from the County of Ventura. Required negotiations with such agencies/organizations add a significant level of uncertainty to the ultimate project approval.

2.2.5.5 Implementation Schedule

The schedule presented in **Table 2-12** shows development of this potential option would take approximately 45 months to complete upon certification of the PEIR for the SSFL project.

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TABLE 2-12
NORTH AMERICAN CUTOFF ROAD AERIAL CONVEYOR IMPLEMENTATION SCHEDULE

Task Name	Duration	Start	Finish
Certification of SSFL PEIR	1 day	December 2017	December 2017
Design	3 months	December 2017	November 2018
Environmental Review (CEQA/NEPA)	30 months	January 2018	May 2020
Land Acquisition	26 months	May 2018	May 2020
Permitting	4 months	June 2020	September 2020
Construction	12 months	September 2020	August 2021
Operation	11 years	August 2021	November 2032
Decommissioning	13 months	November 2032	November 2033

Notes: Several tasks could occur concurrently. For instance:

- Design could begin as soon as DTSC selects a potential option to implement.
- Environmental review includes background technical studies and surveys necessary to complete CEQA and NEPA analyses.
- Land acquisition could begin as soon as DTSC selects a potential option to implement. The RPs would need to demonstrate land control in their application to the County of Ventura for a Conditional Use Permit. Property acquisition would not be completed until the CEQA and NEPA documents prepared for the project are approved.
- The operational duration of 15 years is based on the rate at which soil would be excavated at the SSFL site and assumes that soil would be transported via Woolsey Canyon Road, while the Edison Road overland conveyor route is being planned, permitted and constructed.

2.2.5.6 Construction Equipment and Workforce

Construction of this conveyor route is estimated to require the following construction equipment and employees:

Conveyor

- Two cranes
- Two bulldozers
- Two dump trucks
- Two excavators
- Two forklifts
- Two trucks
- A crew of 16 workers

Rail Site

- One ballast regulator
- Two bulldozers
- One asphalt paver
- One compactor
- One crane
- Two dump trucks
- One excavator
- One forklift
- Two loaders
- One grader
- One railroad tamper
- A crew of 10 workers

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2.2.5.7 Cost

The estimated costs to develop the North American Cutoff Road Aerial Conveyor Route and Rail Site 2B are provided in **Table 2-13**.

TABLE 2-13
ESTIMATED COST TO DEVELOP NORTH AMERICAN CUTOFF ROAD AERIAL CONVEYOR

Item	Cost
Environmental Review (CEQA & NEPA)	$2,000,000
Land Purchase Price	$2,083,200
Conveyor Construction	$12,953,000
Rail Site Construction	$27,145,000
Permitting	$50,000
Decommissioning	$8,020,000
Total	**$52,251,000**

Notes:
Construction costs are estimated at +50/-30 percent.

The operating cost for this potential option is estimated on the basis of cost of power, operator and maintenance labor, repair parts, rail transport to landfills, tipping fees, and truck transport of backfill. It is estimated that the total operational cost of this potential option for the life of the project would be $672 million (this cost includes $160 million for the first 45 months of operation using Woolsey Canyon Road while this alternative is developed, plus $512 million for 11 years of operating this alternative).

When all soil removal cleanup activities are complete and the aerial conveyor is no longer required for operations, the conveyor system would be decommissioned.

3.0 Environmental Analysis

This section evaluates potential environmental issues and environmental effects associated with the development and operation of each feasible transport and conveyance route discussed in Section 2.2. Each route was evaluated for potential environmental impacts related to:

- Air Quality and GHG
- Biological Resources
- Cultural Resources
- Energy Consumption
- Land Use Compatibility
- Noise
- Traffic

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3.1 Air Quality and Greenhouse Gases

Construction and operational air quality and GHG emissions for all analyzed routes would occur within the jurisdiction of the Ventura County Air Pollution Control District (VCAPCD), the Southern California Air Quality Management District (SCAQMD), as well as numerous air districts between the edge of the SCAQMD's borders and the disposal site. Because the purpose of this analysis is to compare the potential options to each other, the analysis does not break down the transportation emissions by air districts other than the VCAPCD and SCAQMD. However, in order to provide a true comparison, the total emissions for each potential option are also reported. The following pollutants were analyzed for all potential route options presented in this analysis:

- Reactive Organic Compounds (ROC)/Volatile Organic Compounds (VOC)
- Nitrogen Oxides (NO_x)
- Carbon Monoxide (CO)
- Sulfur Oxides (SO_x)
- Particulate Matter, 10 and 2.5 micrometers in size (PM10 and PM2.5)
- Greenhouse Gases (CO_2e)

Emissions calculations for the construction and operational activities associated with each of the potential options were calculated using the same methodology as applied to the proposed project evaluated in the PEIR. Detailed assumptions as well as all emissions calculations for each of the potential options are included in Appendix D.

For the purposes of this analysis, the Woolsey Canyon Road Truck Route represents the emissions from the proposed project as analyzed in the PEIR and is used for comparison of operational emissions for the other potential options presented herein. While the PEIR focuses on emissions only within the borders of California, because the truck and train disposal options have the potential to terminate outside California's borders, the transportation emissions for the total distance is reported herein to adequately compare the operational emissions associated with each potential option. Therefore emissions from the Woolsey Canyon Road Truck Route do not directly correlate with the transportation emissions for the proposed project as presented in the PEIR.

With respect to construction activities, because the Woolsey Canyon Road Truck Route does not require construction, all other potential options would exceed the construction emissions associated with the proposed project as analyzed in the PEIR. For further comparison, the construction emissions associated with each potential option are compared to regional thresholds. Because the Woolsey Canyon Road Truck Route would be operational during the construction timeframe of the other potential options, the combined operational emissions from the Woolsey Canyon Road Truck Route and construction emissions from the other potential options are compared to the operational thresholds of each applicable air district.

Note that this analysis does not include the onsite emissions that would occur at the site itself with respect to excavation and other onsite activities. Because the onsite activities would remain

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the same regardless of the potential disposal option chosen, only the transportation emissions and construction activities associated with each of the transportation alternatives are discussed in this analysis. Therefore, while emissions in this feasibility analysis may show below the thresholds for various alternatives, this is only in respect to the transportation emissions alone. When these transportation emissions are added to the onsite emissions from remediation activities, the total daily emissions would exceed regulatory thresholds for NOx regardless of the transportation alternative chosen.

When introducing rail usage to replace haul trucks, trains can be on average four times more fuel efficient and reduce criteria pollutant and GHG emissions (AAR, 2016). This is based on a comparison of composite truck fleet to newer fuel efficient trains. However, because there the project does not have control over the train engine being utilized, a composite fleet for the UPRR rail road was used to determine emission factors. The composite fleet includes engines that range from uncontrolled emissions through the ultra-efficient Tier 4 engine rating. Additionally, in order to reach a disposal facility that accepts the waste types generated by the project, the train would have to travel substantially greater distances than the trucks. Further, the analysis incorporates all of the mitigation measures from the proposed project, with the exception of Mitigation Measure GHG-3 which is identified specifically for each option below. This is because the implementation of Mitigation Measure GHG-3 reduces the GHG emissions from all scenarios to the same level and therefore does not allow for a strong comparison of the options. The mitigation measures from the proposed project incorporate a Tier 4 construction fleet and a 2014 or newer haul truck fleet which substantially reduces pollutant emissions. Therefore, while instinctively the rail options should be more efficient than the truck options, that is not the case in this analysis as is detailed below.

3.1.1 Woolsey Canyon Road Truck Route

Implementation of the Woolsey Canyon Road Truck Route would not require any construction activities because the route consists of existing roadways. Operational emissions from the Woolsey Canyon Road Truck Route and the associated VCAPCD and SCAQMD thresholds are shown in **Table 3-1**. The identified thresholds are based on the Air Districts' plans to achieve or maintain attainment for State and Federal emissions. As shown, the trucking emissions from the Woolsey Canyon Road Truck Route would not exceed any of the regulatory thresholds. While the Woolsey Canyon Road Truck Route does not enter the City of Simi Valley, emissions from this potential option are compared with the Simi Valley thresholds as an additional comparison for the other potential options.

Implementation of the potential option would incrementally contribute to GHG emissions along with past, present, and future activities, and the CEQA Guidelines acknowledge this as a cumulative impact. As such, impacts of GHG emissions are analyzed here on a cumulative basis.

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TABLE 3-1
WOOLSEY CANYON ROAD TRUCK ROUTE AIR EMISSIONS

Scenario	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Woolsey Canyon - Total	8	143	52	5	1	1
Woolsey Canyon - (VCAPCD)	<1	1	1	<1	<1	<1
Woolsey Canyon - (SCAQMD)	1	24	9	1	<1	<1
Woolsey Canyon (Other)[2]	7	118	43	4	1	1
Regional Thresholds by Air District						
VCAPCD[3]	25	25	N/A	N/A	N/A	N/A
SCAQMD[4]	*55*	*55*	*550*	*150*	*100*	*55*
Tons/Year						
Woolsey Canyon –(VCAPCD)	<1	<1	<1	<1	<1	<1
Local Thresholds						
City of Simi Valley[2]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD

2 Other represents emissions from vehicle miles traveled outside of SCAQMD and VCAPCD jurisdictions.

3 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

4 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

*The < designation indicates that there are emissions however they are less than the indicated value.

SOURCE: ESA 2017

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The VCAPCD has not adopted a significance threshold with respect to GHG emissions. Their most recent proposal of emissions (VCAPCD, 2011) summarizes the most prominent approaches and options that have been adopted or considered, including having a tiered approach that involves first applicability of CEQA exemptions, followed by consistency with a local climate action plan, then by an efficiency-based threshold and/or a bright line gap-based threshold. The other potential options include thresholds based on capturing 90 percent of project GHG emissions or thresholds based on air agencies' criteria pollutant thresholds. Based on this report, VCAPCD is still evaluating suitable GHG thresholds but holds preference for GHG thresholds consistent with the SCAQMD and Southern California Association of Governments region.

SCAQMD has adopted an annual screening level threshold of 10,000 metric tons carbon dioxide equivalents (MT CO_2e) for industrial projects for which the SCAQMD is the CEQA lead agency or has discretionary approval (SCAQMD, 2008). SCAQMD, in accordance with CEQA Guidelines Section 15064.7, adopted its annual threshold for industrial sources under a public review process as part of stakeholder working group meetings that were open to the public and based on substantial evidence. The intent of the threshold is to capture 90 percent of total emissions from all new or modified industrial and stationary source sector projects subject to a CEQA analysis where SCAQMD is the lead agency. Data collected by SCAQMD from its

Annual Emissions Reporting (AER) Program indicates that a 90 percent capture rate would cover a substantial portion of future project emissions and would exclude small projects that would in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions (SCAQMD, 2008). The SCAQMD estimates that these small projects would in aggregate contribute less than 1 percent of the future 2050 statewide GHG emissions target.

The County of Los Angeles has a Community Climate Action Plan which addresses county emissions and how development within the County can reduce emissions and comply with the State regulations. However, the proposed project is not within the jurisdiction of Los Angeles County and therefore the climate action plan is not applicable to the proposed project.

The City of Los Angeles *L.A. CEQA Thresholds Guide* (City of Los Angeles, 2006) does not provide guidance on how climate change issues should be addressed in CEQA documents, nor has the City of Los Angeles adopted specific thresholds with respect to GHG emissions.

Although no formal significance threshold for GHG emissions associated with this type of project has been adopted by the Cities of Los Angeles or Simi Valley, the County of Ventura, County of Los Angeles, VCAPCD, or SCAQMD at this juncture, Section 15064.7(c) of the CEQA Guidelines states: "when adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies…" SCAQMD's 10,000 MT CO_2e per year threshold applies to a project's annual long-term GHG emissions. The proposed project would generate the majority of its GHG emissions over a 15-year period. The majority of project GHG emissions would cease after remediation activities are completed. Monitoring and maintenance activities would continue until no longer necessary.

Because the County of Ventura, County of Los Angeles, City of Los Angeles or Simi Valley, and VCAPCD have not adopted any significance criteria for GHG analysis at the time of this writing, it is reasonable for the CEQA Lead Agency to use the threshold adopted by SCAQMD. Additionally, for CEQA purposes, DTSC has determined that the appropriate threshold of significance to assess the GHG impacts of a project of this nature is SCAQMD's 10,000 $MTCO_2e$ per year threshold.

Table 3-2 shows the GHG emissions from Woolsey Canyon Road Truck Route.

TABLE 3-2
WOOLSEY CANYON ROAD TRUCK ROUTE GHG EMISSIONS

	CO_2e MT/yr
Woolsey Canyon Road	11,128
Mitigation GHG-3	(1,129)
Mitigated Total	9,999
Regional Thresholds by Air District	
SCAQMD	10,000

* The inclusion of parenthetical notation indicates a negative number.

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As shown in Table 3-1, operational emissions would not exceed the criteria pollutant emissions thresholds for VCAPCD or SCAQMD. As shown in Table 3-2, the operational emissions from the Woolsey Canyon Road Truck Route would not exceed the SCAQMD GHG threshold with the implementation of Mitigation Measure GHG-3 *GHG Reduction Plan*.

After completion of all soil removal activities, Woolsey Canyon Road would not be decommissioned. Therefore, there would be no air pollutant or GHG emissions from equipment, labor and worker trips related to decommissioning.

3.1.2 Edison Road Truck Route

Implementation of the Edison Road Truck Route would require substantial grading to provide a paved, all-weather roadway usable by diesel haul trucks for soil transport. Once completed, project operations would require the same number of daily truck trips as identified for the Woolsey Canyon Road Truck Route, however the total distance traveled would change slightly due to the location. Because construction would terminate within the City of Simi Valley limits, emissions are also compared to the Simi Valley Thresholds.

Construction emissions from upgrading Edison Road are shown in **Table 3-3**, which assumes that fugitive dust emissions reductions would occur in accordance with the VCAPCD regulations. As shown, total combined construction and operational emissions would exceed the SCAQMD and VCAPCD regional thresholds and the annual Simi Valley threshold for NOx without the inclusion of the onsite equipment usage for excavation and hauling for the remediation activities.

Operational emissions from the Edison Road Truck Route are shown in **Table 3-4**. The identified thresholds are based on the VCAPCD's plans to achieve or maintain attainment for State and Federal emissions. As shown, operational emissions from the Edison Road Truck Route would not exceed the regulatory thresholds and would not result in a significant increase over the Woolsey Canyon Road Truck Route. This potential option would result in an overall reduction in criteria pollutant emissions when compared to the Woolsey Canyon Truck Route.

GHG emissions would occur from both construction and operation. **Table 3-5** shows the construction GHG emissions anticipated from the Edison Road Truck Route to Truck Site 1. Because of the cumulative nature of GHG emissions, construction and operational GHG emissions are compared to the SCAQMD threshold. As shown, GHG emissions from construction alone would not exceed the threshold, however because the Woolsey Canyon Road Truck Route would operate during construction of the Edison Road Truck Route, the total emissions of these two sources must be compared to the threshold. The construction and operation of the Edison Road Truck Route would not exceed regulatory thresholds with the incorporation of Mitigation Measure GHG-3.

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TABLE 3-3
EDISON ROAD TRUCK ROUTE CONSTRUCTION AIR EMISSIONS

	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Construction Emissions						
Construction Total	2	41	70	<1	14	7
Construction within VCAPCD	2	39	75	<1	14	7
Construction within SCAQMD	2	40	78	<1	14	7
Woolsey Canyon Operational Emissions[2]						
Woolsey Canyon - Total	3	50	19	2	<1	<1
Woolsey Canyon - within VCAPCD	<1	1	1	<1	<1	<1
Woolsey Canyon – within SCAQMD	1	24	9	1	<1	<1
Total Emissions						
Total	5	91	97	2	14	7
Within VCAPCD	2	41	76	<1	14	7
Within SCAQMD	4	64	87	1	14	7
Regional Thresholds by Air District						
VCAPCD[3]	25	**25**	N/A	N/A	N/A	N/A
SCAQMD[4]	*55*	***55***	*550*	*150*	*100*	*55*
Tons/Year						
Edison Road Truck Route[5]	1	**20**	17	1	<1	<1
Local Thresholds						
City of Simi Valley[3]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.

2 Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.

3 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

4 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

5 The tons/year emissions include the operational emissions from hauling using the Woolsey Canyon truck Route.

*The < designation indicates that there are emissions however they are less than the indicated value.

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TABLE 3-4
EDISON ROAD TRUCK ROUTE OPERATIONAL AIR EMISSIONS

Scenario	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds / Day						
Total	2	37	14	1	<1	<1
within VCAPCD	<1	2	2	<1	<1	<1
within SCAQMD	1	11	3	<1	<1	<1
Regional Thresholds by Air District & Woolsey Canyon Road Comparison						
VCAPCD[2]	25	25	N/A	N/A	N/A	N/A
SCAQMD[3]	*55*	*55*	*550*	*150*	*100*	*55*
Woolsey Canyon- Total	3	50	19	2	<1	<1
Tons / Year						
Total (VCAPCD)	<1	5	2	<1	<1	<1
Local Thresholds						
City of Simi Valley[2]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.
2 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm
3 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

*The < designation indicates that there are emissions however they are less than the indicated value.

TABLE 3-5
EDISON ROAD TRUCK ROUTE CONSTRUCTION GHG EMISSIONS

		CO_2e MT/yr
Edison Road Truck Route (Construction)		1,896
Woolsey Canyon Road[1]		11,128
Mitigation GHG-3		(3,026)
	Total	**9,999**
Regional Thresholds by Air District		
SCAQMD		10,000

1 Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.
* The inclusion of parenthetical notation indicates a negative number.

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Table 3-6 shows the operational emissions from this route once construction is completed. As shown the operational emissions would exceed the 10,000 MT/yr threshold and would be slightly higher than the Woolsey Canyon Truck Route prior to the implementation of Mitigation Measure GHG-3. With inclusion of mitigation measure GHG-3 the Edison Road Truck Route would not exceed regulatory thresholds.

TABLE 3-6
EDISON ROAD TRUCK ROUTE OPERATIONAL GHG EMISSIONS

	CO_2e MT/yr
Edison Road Truck Route	11,184
Mitigation GHG-3	(1,185)
Mitigated Total	9,999
Regional Threshold & Woolsey Canyon Road Comparison	
SCAQMD	10,000
Woolsey Canyon Road[1]	11,128

[1] Woolsey Canyon Operational Emissions do not include incorporation of Mitigation Measure GHG-3 for comparison purposes.
* The inclusion of parenthetical notation indicates a negative number.

After completion of all soil removal activities, the Edison Road Truck Route would be decommissioned and removed. The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of air pollutant and GHG emissions from the decommissioning process are anticipated to be similar to or less than the emissions generated during the construction phase.[12] Emissions related to decommissioning of this potential option would not occur under the Woolsey Canyon Road Truck Route.

3.1.3 Edison Road Overland Conveyor

Implementation of the Edison Road Overland Conveyor Route would terminate at Truck Site 1. Soil from SSFL would be exported from the site via conveyor to Truck Site 1. From the truck site, trucks would continue to the same disposal sites as identified for the overall cleanup project evaluated in the PEIR.

Construction emissions from developing the Edison Road Overland Conveyor Route are shown in **Table 3-7**, which assumes that fugitive dust emissions reductions would occur in accordance with the VCAPCD regulations. As shown, total combined construction and operational emissions

[12] Because air quality emissions are compared to thresholds on a maximum daily basis, and GHG emissions are compared on a maximum annual basis (as opposed to total emissions over the life of the project), emissions specific to the decommissioning process are not needed to be quantified. Emissions from decommissioning are anticipated to be similar to or less than the construction phase and therefore the maximum daily and annual emissions presented would not change if decommissioning activities were quantified.

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would not exceed either the SCAQMD or VCAPCD regional thresholds for NOx, and would not exceed the annual Simi Valley thresholds for ROC or NOx.

Operational emissions from the Edison Road Overland Conveyor Route are shown in **Table 3-8**. As shown, operational emissions from the Edison Road Overland Conveyor Route would neither exceed the regulatory thresholds, nor result in a significant increase over the Woolsey Canyon Road Truck Route. This potential option would result in an overall reduction in criteria pollutant emissions when compared to the Woolsey Canyon Truck Route.

TABLE 3-7
EDISON ROAD OVERLAND CONVEYOR CONSTRUCTION AIR EMISSIONS

	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Construction Emissions						
Construction Total	3	46	92	<1	13	7
Construction within VCAPCD	3	44	87	<1	13	7
Construction within SCAQMD	3	46	92	<1	13	7
Woolsey Canyon Road Operational Emissions[2]						
Woolsey Canyon - Total	3	50	19	2	<1	<1
Woolsey Canyon - within VCAPCD	<1	1	1	<1	<1	<1
Woolsey Canyon – within SCAQMD	1	24	9	1	<1	<1
Total Emissions						
Total	6	97	111	2	14	7
Within VCAPCD	3	**46**	88	<1	13	7
Within SCAQMD	4	**70**	100	1	13	7
Regional Thresholds by Air District						
VCAPCD[3]	25	25	N/A	N/A	N/A	N/A
SCAQMD[4]	*55*	*55*	*550*	*150*	*100*	*55*
Tons/Year						
Edison Road Truck Route[5]	1	**13**	14	<1	2	1
Local Thresholds						
City of Simi Valley[3]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.

2 Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.

3 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

4 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

5 The tons/year emissions include the operational emissions from hauling using the Woolsey Canyon truck Route.

*The < designation indicates that there are emissions however they are less than the indicated value.

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TABLE 3-8
EDISON ROAD OVERLAND CONVEYOR OPERATIONAL AIR EMISSIONS

	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Total	2	37	14	1	<1	<1
within VCAPCD	<1	2	2	<1	<1	<1
within SCAQMD	1	11	3	<1	<1	<1
Regional Thresholds by Air District & Woolsey Canyon Road Comparison						
VCAPCD[2]	25	25	N/A	N/A	N/A	N/A
SCAQMD[3]	*55*	*55*	*550*	*150*	*100*	*55*
Woolsey Canyon- Total	3	50	19	2	<1	<1
Tons / Year						
Total (VCAPCD)	<1	5	2	<1	<1	<1
Local Thresholds						
City of Simi Valley[2]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.
2 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm
3 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

*The < designation indicates that there are emissions however they are less than the indicated value.

GHG emissions would occur from both construction and operation. **Table 3-9** shows the construction GHG emissions anticipated from the Edison Road Overland Conveyor Route. Because of the cumulative nature of GHG emissions, construction and operational GHG emissions are compared to the SCAQMD threshold. As shown, GHG emissions from construction alone would not exceed the threshold, however because the Woolsey Canyon Road Truck Route would operate during construction of the Edison Road Truck Route, the total emissions of these two sources must be compared to the threshold. The construction and operation of the Edison Road Truck Route would not exceed the threshold with the incorporation of Mitigation Measure GHG-3..

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TABLE 3-9
EDISON ROAD OVERLAND CONVEYOR CONSTRUCTION GHG EMISSIONS

	CO_2e MT/yr
Edison Road Overland Conveyor (Construction)	1,159
Woolsey Canyon Road[1]	11,128
Mitigation GHG-3	(2,288)
Total	**9,999**
Regional Thresholds by Air District	
SCAQMD	10,000

[1] Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.
* The inclusion of parenthetical notation indicates a negative number.

Table 3-10 shows the operational emissions from this route once construction is completed. As shown the operational emissions would exceed regulatory thresholds and would be slightly higher than the Woolsey Canyon Truck Route prior to the implementation of Mitigation Measure GHG-3. With inclusion of mitigation measure GHG-3 the Edison Road Truck Route would not exceed the 10,000 Mt CO_2e threshold.

TABLE 3-10
EDISON ROAD TRUCK ROUTE OPERATIONAL GHG EMISSIONS

	CO_2e MT/yr
Edison Road Overland Conveyor	12,701
Mitigation GHG-3	(2,702)
Mitigated Total	9,999
Regional Threshold & Woolsey Canyon Road Comparison	
SCAQMD	10,000
Woolsey Canyon Road[1]	11,128

[1] Woolsey Canyon Operational Emissions do not include incorporation of Mitigation Measure GHG-3 for comparison purposes.
* The inclusion of parenthetical notation indicates a negative number.

After completion of all soil removal activities, the Edison Road Overland Conveyor would be decommissioned and removed. The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of air pollutant and GHG emissions from the decommissioning process are anticipated to be similar to or less than the emissions generated during the construction phase. Emissions related to decommissioning of this potential option would not occur under the Woolsey Canyon Road Route.

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3.1.4 North American Cutoff Road Overland Conveyor

Implementation of the North American Cutoff Road Overland Conveyor Route would terminate at Rail Site 2B. Once completed, the conveyor would be used to transport soil to Rail Site 2B. The soil would be loaded onto trains and transported to a disposal site. While the excavated soils would be removed via train, the backfill needed for the site would need to be transported by truck to the SSFL site. Therefore, trucking emissions associated with the backfill transport are included in the emissions estimates for this potential option. [13]

Construction emissions from the development of the conveyor and Rail Site 2B are presented in **Table 3-11**, which assumes that fugitive dust emissions reductions would occur in accordance with the VCAPCD regulations. Also it assumes that construction activities for the conveyor route and Rail Site 2B would occur at the same time. As shown, total combined construction and operational emissions would exceed both the SCAQMD and VCAPCD regional threshold for NOx, however would be below the annual Simi Valley thresholds.

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[13] Access to Rail Transfer Site 2B would be from Smith Road, a local street that is lined with single family residences. Due to (1) width of this residential roadway, (2) proximity of residences, (3) the size and configuration of the rail site cannot reasonably accommodate stockpiled backfill, and (4) the additional handling of backfill, transport to Rail Transfer Site 2B by truck of clean backfill for conveyance to SSFL is not considered in this analysis.

TABLE 3-11
NORTH AMERICAN CUTOFF ROAD OVERLAND CONVEYOR CONSTRUCTION AIR EMISSIONS

	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Construction Emissions						
Construction Total	2	35	65	<1	15	8
Construction within VCAPCD	2	34	64	<1	15	8
Construction within SCAQMD	2	35	65	<1	15	8
Woolsey Canyon Road Operational Emissions[2]						
Woolsey Canyon - Total	3	50	19	2	<1	<1
Woolsey Canyon - within VCAPCD	<1	1	1	<1	<1	<1
Woolsey Canyon – within SCAQMD	1	24	9	1	<1	<1
Total Emissions						
Total	5	85	84	2	15	8
Within VCAPCD	2	**36**	65	<1	15	8
Within SCAQMD	3	**58**	74	1	15	8
Regional Thresholds by Air District						
VCAPCD[3]	25	25	N/A	N/A	N/A	N/A
SCAQMD[4]	*55*	*55*	*550*	*150*	*100*	*55*
Tons/Year						
Edison Road Truck Route[5]	1	11	11	1	2	1
Local Thresholds						
City of Simi Valley[3]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.

2 Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.

3 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

4 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

5 The tons/year emissions include the operational emissions from hauling using the Woolsey Canyon truck Route.

*The < designation indicates that there are emissions however they are less than the indicated value.

Operational emissions from the North American Cutoff Road Overland Conveyor Route are shown in **Table 3-12**. As shown, the operational emissions from the North American Cutoff Road Overland Conveyor Route would exceed the SCAQMD's regulatory threshold for NOx. In addition, overall emissions would exceed the Woolsey Canyon Road Route for all criteria pollutants.

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TABLE 3-12
NORTH AMERICAN CUTOFF ROAD OVERLAND CONVEYOR OPERATIONAL AIR EMISSIONS

Scenario	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Total	176	2,816	675	46	112	108
within VCAPCD	0	5	2	0	0	0
within SCAQMD	29	**462**	119	8	18	18
Regional Thresholds by Air District & Woolsey Canyon Road Comparison						
VCAPCD[2]	25	25	N/A	N/A	N/A	N/A
SCAQMD[3]	*55*	*55*	*550*	*150*	*100*	*55*
Woolsey Canyon- Total	3	50	19	2	<1	<1
Tons / Year						
Total (VCAPCD)	<1	1	<1	<1	<1	<1
Local Thresholds						
City of Simi Valley[2]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD

2 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

3 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

*The < designation indicates that there are emissions however they are less than the indicated value.

GHG emissions would occur from both construction and operation. **Table 3-13** shows the construction GHG emissions anticipated from the North American Cutoff Road Overland Conveyor Route. . Because of the cumulative nature of GHG emissions, construction and operational GHG emissions are compared to the SCAQMD threshold. As shown, GHG emissions from construction alone would not exceed the threshold, however because the Woolsey Canyon Road Truck Route would operate during construction of the North American Cutoff Road Overland Conveyor Route, the total emissions of these two sources must be compared to the threshold. Construction and operation of the North American Cutoff Road Overland Conveyor Route would not exceed the applicable threshold with the incorporation of Mitigation Measure GHG-3..

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TABLE 3-13
NORTH AMERICAN CUTOFF ROAD OVERLAND CONVEYOR CONSTRUCTION GHG EMISSIONS

	CO2e MT/yr
North American Cutoff Road Overland Conveyor (Construction)	1,110
Woolsey Canyon Road[1]	11,128
Mitigation GHG-3	(2,240)
Total	**9,999**
Regional Thresholds by Air District	
SCAQMD	10,000

1 Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.

* The inclusion of parenthetical notation indicates a negative number.

Table 3-14 shows the operational emissions from this route once construction is completed. Depending on the type of train used, one train per week would leave the site. As shown the operational emissions would exceed the applicable threshold and the Woolsey Canyon Road Truck Route prior to incorporation of mitigation measure GHG-3. With incorporation of mitigation measure GHG-3, overall emissions would be reduced to below regulatory thresholds.

TABLE 3-14
NORTH AMERICAN CUTOFF ROAD OVERLAND CONVEYOR OPERATIONAL GHG EMISSIONS

	CO_2e MT/yr
North American Cutoff Road Overland Conveyor	19,762
Mitigation GHG-3	(9,763)
Mitigated Total	9,999
Regional Threshold & Woolsey Canyon Road Comparison	
SCAQMD	10,000
Woolsey Canyon Road[1]	11,128

1 Woolsey Canyon Operational Emissions do not include incorporation of Mitigation Measure GHG-3 for comparison purposes.

* The inclusion of parenthetical notation indicates a negative number.

After completion of all soil removal activities, the North American Cutoff Road Overland Conveyor would be decommissioned and removed. The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of air pollutant and GHG emissions from the decommissioning process are anticipated to be similar to or less than the emissions generated during the construction phase. Emissions related to decommissioning of this potential option would not occur under the Woolsey Canyon Road Route.

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3.1.5 North American Cutoff Road Aerial Conveyor

This analysis assumes that implementation of the North American Cutoff Road Aerial Conveyor Route would terminate at Rail Site 2B. Once completed, the conveyor would be used to transport soil to Rail Site 2B. The soil would be loaded onto trains and transported to a disposal site. While the excavated soils would be removed via train, the backfill needed for the site would need to be transported by truck to the SSFL site. Therefore, trucking emissions associated with the backfill transport are included in the emissions estimates for this potential option. [14]

Construction emissions from development of the conveyor and Rail Site 2B are presented in **Table 3-15**, which assumes that fugitive dust emissions reductions would occur in accordance with VCAPCD regulations. Also it assumes that construction activities for the conveyor route and Rail Site 2B would occur at the same time. As shown, total combined construction and operational emissions would not exceed the SCAQMD or VCAPCD regional thresholds or the annual Simi Valley thresholds.

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[14] Access to Rail Transfer Site 2B would be from Smith Road, a local street that is lined with single family residences. Due to (1) width of this residential roadway, (2) proximity of residences, (3) the size and configuration of the rail site cannot reasonably accommodate stockpiled backfill, and (4) the additional handling of backfill, transport to Rail Transfer Site 2B by truck of clean backfill for conveyance to SSFL is not considered in this analysis.

TABLE 3-15
NORTH AMERICAN CUTOFF ROAD AERIAL CONVEYOR CONSTRUCTION AIR EMISSIONS

	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Construction Emissions						
Construction Total	2	21	45	<1	20	11
Construction within VCAPCD	2	21	43	<1	20	11
Construction within SCAQMD	2	21	45	<1	20	11
Woolsey Canyon Road Operational Emissions[2]						
Woolsey Canyon - Total	3	50	19	2	<1	<1
Woolsey Canyon - within VCAPCD	<1	1	1	<1	<1	<1
Woolsey Canyon – within SCAQMD	1	24	9	1	<1	<1
Total Emissions						
Total	5	71	64	2	20	11
Within VCAPCD	2	22	44	<1	20	11
Within SCAQMD	3	45	54	1	20	11
Regional Thresholds by Air District						
VCAPCD[3]	25	25	N/A	N/A	N/A	N/A
SCAQMD[4]	*55*	*55*	*550*	*150*	*100*	*55*
Tons/Year						
Edison Road Truck Route[5]	1	9	8	<1	3	1
Local Thresholds						
City of Simi Valley[3]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.

2 Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.

3 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

4 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

5 The tons/year emissions include the operational emissions from hauling using the Woolsey Canyon truck Route.

*The < designation indicates that there are emissions however they are less than the indicated value.

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Operational emissions from the North American Cutoff Road Aerial Conveyor Route are shown in **Table 3-16**. As shown, the operational emissions would exceed SCAQMD's regulatory threshold for NOx. In addition, overall emissions would exceed the Woolsey Canyon Road Route for all criteria pollutants.

TABLE 3-16
NORTH AMERICAN CUTOFF ROAD AERIAL CONVEYOR OPERATIONAL AIR EMISSIONS

Scenario	ROC/VOC[1]	NOx	CO	SOx	PM10	PM2.5
Pounds/Day						
Total	177	2,828	691	47	112	108
within VCAPCD	<1	5	2	<1	<1	<1
within SCAQMD	29	**462**	119	8	18	18
Regional Thresholds by Air District & Woolsey Canyon Road Comparison						
VCAPCD[2]	25	25	N/A	N/A	N/A	N/A
SCAQMD[3]	*55*	*55*	*550*	*150*	*100*	*55*
Woolsey Canyon- Total	3	50	19	2	<1	<1
Tons/Year						
Total (VCAPCD)	<1	1	<1	<1	<1	<1
Local Thresholds						
City of Simi Valley[2]	13.7	13.7	N/A	N/A	N/A	N/A

1 In the analysis ROGs are used as a surrogate for ROCs regulated by VCAPCD and VOCs regulated by SCAQMD.

2 VCAPCD. 2003. Ventura County Air Quality Assessment Guidelines. October. Available: http://www.vcapcd.org/environmental_review.htm

3 SCAQMD. 2015b. SCAQMD Air Quality Significance Thresholds. Accessed at < http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook> on March 30, 2015.

*The < designation indicates that there are emissions however they are less than the indicated value.

GHG emissions would occur from both construction and operation. **Table 3-17** shows the construction GHG emissions anticipated from the North American Cutoff Road Aerial Conveyor Route. Because of the cumulative nature of GHG emissions, construction and operational GHG emissions are compared to the SCAQMD threshold. As shown, GHG emissions from construction alone would not exceed the threshold, however because the Woolsey Canyon Road Truck Route would operate during construction of the North American Cutoff Road Aerial Conveyor Route, the total emissions of these two sources must be compared to the threshold. The construction and operation of the North American Cutoff Road Aerial Conveyor Route would not exceed the applicable threshold with the incorporation of Mitigation Measure GHG-3.

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TABLE 3-17
NORTH AMERICAN CUTOFF ROAD AERIAL CONVEYOR CONSTRUCTION GHG EMISSIONS

	CO_2e MT/yr
North American Cutoff Road Aerial Conveyor	949
Woolsey Canyon Road[1]	11,128
Mitigation GHG-3	(2,801)
Mitigated Total	**9,999**
Regional Thresholds by Air District	
SCAQMD	10,000

[1] Woolsey Canyon Operational Emissions represent the emissions from hauling soil over the Woolsey Canyon truck route while the Edison Road Truck route is being constructed. Regional air quality emissions are cumulative for daily activities of a project regardless of the location where they occur.

* The inclusion of parenthetical notation indicates a negative number.

Table 3-18 shows the operational emissions from this route once construction is completed. Depending on the type of train used, one train per week would leave the site. As shown the operational emissions would exceed the applicable threshold and the Woolsey Canyon Road Truck Route prior to incorporation of mitigation measure GHG-3. With incorporation of mitigation measure GHG-3, overall emissions would be reduced to below the thresholds.

TABLE 3-18
NORTH AMERICAN CUTOFF ROAD AERIAL CONVEYOR OPERATIONAL GHG EMISSIONS

	CO_2e MT/yr
North American Cutoff Road Aerial Conveyor	21,886
Mitigation GHG-3	(11,887)
Mitigated Total	9,999
Regional Threshold & Woolsey Canyon Road Comparison	
SCAQMD	10,000
Woolsey Canyon Road[1]	11,128

[1] Woolsey Canyon Operational Emissions do not include incorporation of Mitigation Measure GHG-3 for comparison purposes.

* The inclusion of parenthetical notation indicates a negative number.

After completion of all soil removal activities, the North American Cutoff Road Aerial Conveyor Route would be decommissioned and removed. The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of air pollutant and GHG emissions from the decommissioning process are anticipated to be similar to or less than the emissions generated during the construction phase. Emissions related

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to decommissioning of this potential option would not occur under the Woolsey Canyon Road Route.

3.2 Biological Resources

A database search of the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB), U.S. Fish and Wildlife Service's (USFWS) critical habitat mapper, and USFWS National Wetlands Inventory were reviewed to determine the potential for sensitive biological resources to be affected by the potential transportation options.

In addition, a biological resource field reconnaissance was conducted by ESA biologists on November 14, 2014, along the Edison Road Truck and Conveyor Routes. The reconnaissance was conducted primarily by vehicle, while select areas along the transportation routes were surveyed on foot to document habitat types (such as at various stream crossings). The North American Cutoff Road, located approximately 1,300 feet east of the North American Cutoff Road Aerial Conveyor, was also surveyed by vehicle, and the habitat types in the vicinity of the existing road were characterized. Aerial maps were used in the field to map primary vegetation communities and identify any sensitive biological resources along Edison Road and North American Cutoff Road. The potential footprints for the North American Cutoff Road Overland Conveyor and Aerial Conveyor Routes, Truck Site 1 and Rail Site 2B, had not yet been established during the field reconnaissance; therefore, potential impacts and suggested due diligence is based on general knowledge of the site acquired during the field reconnaissance, as well as review of aerial maps and databases previously identified. Focused surveys for rare plants or wildlife were not conducted as part of the field reconnaissance.

Based on the field reconnaissance and review of online databases, the transportation routes traverse potentially jurisdictional features and natural vegetation communities, including habitats that are considered sensitive by resource and/or local agencies. These habitats have the potential to support sensitive plants and wildlife species; therefore, once a route is selected and the impact footprint determined, it is recommended that additional biological surveys be conducted on foot to verify the suitability of habitats to support special-status plants and wildlife, and to verify the types of focused surveys that should be conducted prior to any vegetation or land disturbance.

3.2.1 Woolsey Canyon Road Truck Route

The Woolsey Canyon Road Truck Route consists entirely of existing roads and would not require any new construction for use as a haul route. Therefore, use of Woolsey Canyon Road would not result in any new construction or disturbance of undeveloped land. As such, use of the Woolsey Canyon Road Truck Route would result in no additional adverse effects on biological resources. After the construction phase, Woolsey Canyon Road would not be decommissioned and therefore no further biological impacts are anticipated.

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3.2.2 Edison Road Truck Route

This potential option consists of upgrading Edison Road with pavement for use as a primary truck route for hauling soil from the SSFL site to the public roadway system (via Guardian Street to Tapo Canyon Boulevard) to final disposal locations.

Vegetation Communities/Sensitive Habitats and Special-Status Biological Resources

Along the upland slopes adjacent to the truck route, the vegetation communities observed include large expanses of non-native grassland, Venturan coastal sage scrub (CSS), chaparral dominated by chamise (*Adenostoma fasciculatum*), California lilac (*Ceanothus* sp.), and sandstone outcrops. Venturan CSS and sandstone outcrops are considered by Ventura County to be locally important communities and considered by CDFW to be sensitive vegetation communities. Up to 88 acres of vegetation removal could occur in association with land disturbance for development of this truck route. Restoration of Venturan CSS and sandstone outcrops would be required for any temporary or permanent disturbance that would entail preparation and implementation of an approved site-specific restoration plan. Restoration of jurisdictional features/habitats would also require mitigation, as discussed in Potential Jurisdictional Features.

The Venturan CSS and chaparral communities could provide suitable habitat for special-status wildlife and plants such as coastal California gnatcatcher (*Polioptila californica californica*), a federally threatened species; Braunton's milk-vetch (*Astragalus brauntonii*), a federally endangered species; and slender mariposa lily (*Calochortus clavatus* var. *gracilis*), a Ventura County Locally Important Species and rare plant as designated by the California Native Plant Society. Focused surveys for these and other special-status species that could be supported by these natural vegetation communities should be conducted to determine presence. The non-native grassland habitat along this route could provide suitable habitat for mammals such as (but not limited to) mule deer (*Odocoileus hemionus*); blacktailed jackrabbit (*Lepus californicus*), a California Species of Special Concern; and bobcat (*Lynx rufus*). This habitat also supports a variety of rodents such as Los Angeles little pocket mouse (*Perognathus longimembris brevinasus)*, a California Species of Special Concern as well as common species such as the California ground squirrel (*Spermophilus beecheyi*). The vegetation around the Edison Road Truck Route provides nesting habitat for a variety of raptors and other avian species protected under the Migratory Bird Treaty Act (MBTA) of 1918.

The portion of the Arroyo Simi that borders the northern boundary of the Edison Road Truck Route and traverses Truck Site 1 contains Eucalyptus (riparian) woodland that is intermixed with some native upland shrubs (i.e., coyote brush), with adjacent CSS along the upland slopes that are further from the route. The Arroyo Simi is an intermittent stream that has the potential to support special-status aquatic and riparian species such as bank swallow (*Riparia riparia*), arroyo chub (*Gila orcutti*), two-striped garter snake (*Thamnophis hammondii*), and western pond turtle (*Actinemys marmorata*). Impacts to these and other aquatic/riparian species could be avoided through appropriate avoidance and minimization measures such as seasonal work restrictions.

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In addition to Eucalyptus woodland along the Arroyo Simi, Truck Site 1 also supports disturbed CSS and ruderal habitat. This upland vegetation generally includes heavily disturbed, non-native grassland dominated by Russian thistle (*Salsola tragus*), an invasive, non-native species, which, along with the adjacent disturbed CSS which would have a limited potential to provide suitable habitat for special-status wildlife and plants.

In addition, a few scattered oak trees, including scrub oaks (*Quercus berberidifolia*), which are protected by the Ventura County Tree Protection Ordinance, were observed within the aforementioned communities, although they are far enough away from the road that no adverse effects are anticipated. Other trees protected by this ordinance may also occur along this route.

The sandstone outcrops located at the southernmost end of the truck route provide suitable habitat for special-status plant species such as Santa Susana tarplant (*Deinandra minthornii*) and chaparral nolina (*Nolina cismontane*). Unavoidable impacts to rare plants would likely require preparation and implementation of a CDFW-approved restoration plan. In addition, the sandstone outcrops could potentially contain ephemeral depressions that could provide vernal pool habitat and thus support sensitive vernal pool species such as vernal pool fairy shrimp (*Branchinecta lynchi*; federally threatened) or Riverside fairy shrimp (*Streptocephalus woottoni*; federally endangered). If construction results in modification of the sandstone outcrops (such as blasting), these resources could be adversely affected. A habitat assessment for vernal pools and other aquatic features that could support vernal pool branchiopods should be conducted, followed by protocol-level surveys for vernal pool fairy shrimp and Riverside fairy shrimp within areas of habitat deemed suitable during the habitat assessment. If these listed species are determined to be present during protocol-level surveys, consultation with USFWS would be required as well as acquisition of an incidental take permit for any species impacts.

Potential Jurisdictional Features

The Arroyo Simi is a jurisdictional feature that borders the northern boundary of the Edison Road Truck Route and traverses Truck Site 1. No existing roads currently cross the Arroyo Simi from Edison Road, nor do any extend to Guardian Street and Tapo Canyon Road along the fringe of the arroyo from the SSFL site. Therefore, Edison Road would be extended to cross the Arroyo Simi to Tapo Canyon Road. Because the Arroyo Simi is a federal- and state-regulated water course, a permit from the U.S. Army Corps of Engineers (USACE), Los Angeles Regional Water Quality Control Board (LARWQCB), and/or CDFW would be needed prior to any work within the arroyo, including its banks and associated riparian vegetation.

In addition to the Arroyo Simi, an unnamed drainage that is a tributary to the Arroyo Simi is located along the northern portion of the haul route. This ephemeral drainage is dominated by mulefat within the channel and along its banks. A few willows (*Salix* sp.) were observed along this drainage, as well as non-native black mustard (*Brassica nigra*). Because this drainage is tributary to the Arroyo Simi, any work within the channel, including its banks and associated riparian vegetation, would require a permit and subsequent approval from USACE, LARWQCB, and/or CDFW.

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In addition, mitigation should be considered for permanent and/or temporary disturbance to the jurisdictional features, such as onsite restoration and monitoring, or compensatory mitigation.

After the construction phase, Edison Road would be decommissioned and therefore no further biological impacts are anticipated.

3.2.3 Edison Road Overland Conveyor

This potential option consists of installing an overland conveyor along Edison Road that would transport material from SSFL to Truck Site 1, located at the end of Edison Road. At Truck Site 1, soil from SSFL would be loaded into haul trucks, which would transport the material to final disposal locations.

Vegetation Communities/Sensitive Habitats and Special-Status Biological Resources

The vegetation communities observed along the upland slopes immediately surrounding the potential overland conveyor include non-native grassland, Venturan CSS, and chaparral. Sandstone outcrops were observed immediately west of the southern extent of where the conveyor would be constructed. As previously indicated, Venturan CSS and sandstone outcrops are considered by Ventura County to be locally important communities and sensitive vegetation communities by CDFW. Up to 4.7 acres of vegetation removal could occur in association with land disturbance for development of this haul route. Restoration of Venturan CSS and sandstone outcrops would be required for any temporary or permanent disturbance, which would entail preparation and implementation of an approved site-specific restoration plan. Restoration of jurisdictional features/habitats would also require mitigation, as discussed in Potential Jurisdictional Features.

The Venturan CSS, chaparral, non-native grassland communities, Arroyo Simi and associated riparian woodland vegetation, and sandstone outcrops located along the overland conveyor could provide suitable habitat for special-status wildlife and plants, as well as for nesting birds, as previously described. In addition, a few scattered scrub oak trees were observed within some of these habitats and may occur within the overland conveyor route. Other trees protected by the Ventura County Tree Protection Ordinance may also occur along this route, which would require a tree permit from Ventura County and potential mitigation.

After decommissioning is complete, the area would be revegetated using native vegetation.

Potential Jurisdictional Features

As previously described for the Edison Road Truck Route, the Arroyo Simi and the unnamed drainage that is a tributary to the Arroyo Simi, are jurisdictional features, and a permit and approval from USACE, LARWQCB, and/or CDFW would be needed prior to any work within the channel, banks or associated riparian vegetation. In addition, mitigation should be considered for permanent and/or temporary disturbance to the Arroyo Simi and associated riparian vegetation such as onsite restoration and monitoring, or compensatory mitigation.

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3.2.4 North American Cutoff Road Overland Conveyor

This potential option consists of installing an overland conveyor along North American Cutoff Road that would transport material from SSFL to Rail Site 2B, at which point soil would be loaded directly into railcars and transported by rail to another transfer facility (not identified at this time, but assumed to be located near an approved landfill) to be loaded into trucks and transported to final disposal locations.

Vegetation Communities/Sensitive Habitats and Special-Status Biological Resources

Vegetation communities and sensitive habitats in the general vicinity of the North American Cutoff Road Overland Conveyor Route include Venturan CSS, chaparral, and sandstone cliffs/outcrops with varying densities of coastal sage scrub species. Venturan CSS and sandstone outcrops are considered by Ventura County to be locally important communities and are also considered by CDFW to be sensitive vegetation communities. These communities, as well as chaparral, may support special-status wildlife and plants as previously described. However, a biological field survey of this route would be required to verify the suitability of habitats to support special-status species and the need for focused surveys. In addition, trees protected by the Ventura County Tree Protection Ordinance may occur along this route.

Portions of the Arroyo Simi supporting riparian forest vegetation are adjacent to the northern boundary of Rail Site 2B. Because the Arroyo Simi is a state and federally regulated watercourse, a permit from USACE, LARWQCB, and/or CDFW would be needed prior to any work within the channel, or its banks and associated riparian vegetation. As previously discussed, the Arroyo Simi has the potential to support special-status aquatic and riparian species such as bank swallow, arroyo chub, two-striped garter snake, and western pond turtle. Impacts to these and other aquatic/riparian species could be avoided through appropriate avoidance and minimization measures such as seasonal work restrictions. However, as it is unknown if direct or indirect impacts to the Arroyo Simi or riparian forest habitat would occur, and the type of riparian forest habitat has not been determined, potential impacts could occur to federally and state listed species such as least Bell's vireo (*Vireo bellii pusillus*) or southwestern willow flycatcher (*Empidonax traillii extimus*). A biological field survey would be required to determine the suitability of the riparian forest habitat for these and other special-status species.

The central and western portions of Rail Site 2B appear heavily disturbed and dominated by non-native, herbaceous vegetation, interspersed with ornamental trees. The eastern portion of this rail site appears to be dominated by disturbed Venturan CSS interspersed with sandstone outcrops. Ornamental trees, primarily pepper trees (*Schinus* sp.) are located throughout Rail Site 2B and could provide nesting habitat for a variety of raptors and other avian species protected under the MBTA, along with the Venturan CSS habitat. As previously indicated, Venturan CSS and sandstone outcrops are protected communities that may provide suitable habitat for special-status wildlife and plants.

Up to 11.9 acres of vegetation removal could occur in association with land disturbance for development of this haul route. Restoration of Venturan CSS and sandstone outcrops would be

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required for any temporary or permanent disturbance, which would entail preparation and implementation of an approved site-specific restoration plan. Restoration of jurisdictional features/habitats would also require mitigation, as discussed in Potential Jurisdictional Features.

After decommissioning is complete, the area would be revegetated using native vegetation.

Potential Jurisdictional Features

Based on a desktop analysis, it appears that the potential North American Cutoff Road Overland Conveyor transportation route could traverse three potential jurisdictional features (including the Arroyo Simi) that could be under the jurisdiction of USACE, LARWQCB, and/or CDFW and therefore would require a permit from USACE, LARWQCB, and/or CDFW prior to any work within these drainages, or disturbance to any associated riparian vegetation. In addition, mitigation should be considered for permanent and/or temporary disturbance to jurisdictional features such as onsite restoration and monitoring, or compensatory mitigation.

Wildlife Movement Corridor

According to the South Coast Wildlands Missing Linkages Project (2008), the Santa Monica-Sierra Madre Landscape Linkage is a major wildlife corridor that connects the Sierra Madre Ranges of the Los Padres National Forest to the Santa Monica Mountains, and includes the Simi Hills. The North American Cutoff Road Overland Conveyor Route is located within the eastern strand of the Santa Monica-Sierra Madre Landscape Linkage; therefore, a review of available studies of terrestrial wildlife movement along this route and evaluation of project-related noise generation is recommended to evaluate potential effects on wildlife movement.

3.2.5 North American Cutoff Aerial Conveyor

This potential option consists of installing an aerial conveyor along a portion of North American Cutoff Road that would transport material from SSFL to Rail Site 2B, at which point soil would be loaded directly into railcars and transported by rail to another transfer facility (not identified at this time, but assumed to be located near an approved landfill) to be loaded into trucks and transported to final disposal locations. Because the aerial conveyor requires a linear alignment, this potential option would follow North American Cutoff Road for approximately 2,000 feet and then would deviate from the roadway alignment through undisturbed land for approximately 8,000 feet to Rail Site 2B (see Figure 4).

Vegetation Communities/Sensitive Habitats and Special-Status Biological Resources

Similar to the North American Cutoff Road Overland Conveyor, vegetation communities/habitats in the general vicinity of the aerial conveyor include Venturan CSS, chaparral, and sandstone rock outcroppings with varying densities of coastal sage scrub species. These vegetation communities could provide suitable habitat for special-status wildlife and plants as previously described. A biological field survey of this route would be required to verify the suitability of habitats to support special-status species and the need for focused surveys. Venturan CSS and

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sandstone outcrops are protected vegetation communities. In addition, trees protected by the Ventura County Tree Protection Ordinance may occur along this route.

Up to 14 acres of vegetation removal could occur in association with land disturbance for development of this haul route. Restoration of Venturan CSS and sandstone outcrops would be required for any temporary or permanent disturbance, which would entail preparation and implementation of an approved site-specific restoration plan. Restoration of jurisdictional features/habitats would also require mitigation, as discussed in Potential Jurisdictional Features.

After decommissioning is complete, the area would be revegetated using native vegetation.

Potential Jurisdictional Features

Based on a desktop analysis, it appears that the potential North American Cutoff Road Aerial Conveyor transportation route could traverse two potentially jurisdictional features (including the Arroyo Simi) that could be under the jurisdiction of USACE, LARWQCB, and/or CDFW and therefore would require a permit from USACE, LARWQCB, and/or CDFW prior to any work within these drainages, or disturbance to any associated riparian vegetation. In addition, mitigation should be considered for permanent and/or temporary disturbance to jurisdictional features such as onsite restoration and monitoring, or compensatory mitigation.

Wildlife Movement Corridor

According to the South Coast Wildlands Missing Linkages Project (2008), the Santa Monica-Sierra Madre Landscape Linkage is a major wildlife corridor that connects the Sierra Madre Ranges of the Los Padres National Forest to the Santa Monica Mountains, and includes the Simi Hills. The potential aerial conveyor is located within the eastern strand of the Santa Monica-Sierra Madre Landscape Linkage; therefore, review of available studies of terrestrial wildlife movement along this route and evaluation of project-related noise generation is recommended to evaluate potential effects on wildlife movement.

The vegetation communities and special-status biological resources for Rail Site 2B are the same as those discussed for the North American Cutoff Road Overland Conveyor Route.

3.3 Cultural Resources

A records search at the California Historical Resources Information System was used, in part, to determine the cultural sensitivity of the lands affected by the potential options. Numerous archaeological sites are recorded in the general area of Edison Road and North American Cutoff Road. Given the topography of the project area, it is possible that other unrecorded archaeological sites may exist within the Edison Road and North American Cutoff Road corridors. Systematic Phase I pedestrian archaeological surveys of the selected route, and the significance evaluation of any resources identified—both performed by qualified archaeologists—should be undertaken as part of the environmental review process. Reports should be prepared to document the results of survey and significance evaluation. Any prehistoric archaeological evaluation study would be conducted in consultation with local Native American groups. If a resource is determined to be a historical resource or unique archaeological resource, it should be avoided during construction. If

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avoidance is not feasible, a site mitigation plan or additional protection measures should be developed. Recommendations for monitoring would be formulated based on the results of the pedestrian surveys and significance evaluations.

The Edison Road and North American Cutoff Road are located on geological units with low to high paleontological sensitivity. Because the area in general is considered sensitive for paleontological resources, if a potential option were to be selected, additional work would be necessary to ensure that potential significant paleontological resources are not adversely affected. A paleontological records search should be conducted as part of the environmental review process through the Natural History Museum of Los Angeles County and/or the University of California Berkeley Museum of Paleontology to determine specific paleontological localities within and around the potential option. In addition, a reconnaissance-level site visit should be conducted in areas where there are geological units mapped as having moderate or high sensitivity, and a report documenting the site visit and records search prepared. If sensitive paleontological resources are identified, a treatment plan or protective measures should be developed. Recommendations for monitoring would be formulated based on the results of the site visit and records search results.

3.3.1 Woolsey Canyon Road Truck Route

The Woolsey Canyon Road Truck Route consists entirely of existing roads and would not require any new construction for use as a haul route. Therefore, use of Woolsey Canyon Road would not result in any new construction or disturbance of undeveloped land. As such, use of the Woolsey Canyon Road haul route would result in no additional effects on cultural resources. Impacts to any cultural or paleontological resources would likely occur during the construction phase when the soil surface is initially disturbed. Woolsey Canyon Road would not be decommissioned after the project is complete and therefor no further impacts to cultural resources are anticipated.

3.3.2 Edison Road Truck Route

Archaeological Resources

A records search at the California Historical Resources Information System – South Central Coastal Information Center (SCCIC) revealed that there are two archaeological sites (CA-VEN-734 and -1420) and five prehistoric isolated artifacts (P-56-100285, -100295, -100318, -100319, and -100320) within the Edison Road Truck Route.

Site CA-VEN-734 consists of a prehistoric lithic scatter with flakes, lithic tools, fire-cracked rock, fired-cracked manos, and a hammerstone. Based on excavation of test units at the site, the original site record concluded that the site was a “lightly used encampment site” (Pence, 1984). This site has not been evaluated for listing in the National Register of Historic Places (National Register), California Register of Historical Resources (California Register), or local historical register.

Site CA-VEN-1420 consists of an open air small- to medium-density prehistoric lithic scatter, partially disturbed by the installation of multiple aboveground water lines. This site has not been

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evaluated for listing in the National Register, California Register, or local historical register. Isolated artifacts are typically not considered eligible for listing in any register.

Historic topographic maps (1903 Camulos 30-minute USGS topographic map, 1903 and 1942 Santa Susana 15-minute USGS topographic maps, 1903 and 1944 Calabasas 15-minute USGS topographic maps, 1941 Santa Susana 15-minute War Department map, and 1947 Calabasas 15-minute USGS topographic map) and aerial photographs (via historicaerials.com) were reviewed. Edison Road is present on historic topographic maps as early as 1944, and the general vicinity appears undeveloped.

Topography in the vicinity of the Edison Road Truck Route was observed via satellite photos and a reconnaissance-level site visit conducted November 14, 2014. This observation of topography, along with the records search results, was used to infer the archaeological sensitivity of the route.

The majority of Edison Road was observed to generally be quite steep and cut into rocky slopes, making much of it unsuitable for prehistoric or historic human activity. The archaeological sensitivity of these steep areas is considered low. Based on terrain, proximity to water, and presence of previously recorded resources, the southern end of the route and, in particular, the very northern end of the route and Truck Site 1 have a higher archaeological sensitivity. Given the flat topography, the location near water sources at the confluence of Arroyo Simi and the Meier Canyon Creek, the relatively undisturbed state, and the presence of known prehistoric archaeological sites, the northern part of the Edison Road Truck Route and Truck Site 1 should be considered highly sensitive for archaeological resources.

On average, Edison Road Truck Route should be considered moderately sensitive for archaeological resources. However, this is variable across the route, with the southern end, areas with low slope, the northern end, and Truck Site 1 having a higher sensitivity. The great majority (approximately 80 percent) has never been subject to archaeological survey.

Because the area in general is considered sensitive for archaeological resources, if this potential option were to be selected, additional work would be necessary to ensure that potential significant resources are not adversely affected. Two known cultural resources (CA-VEN-734 and -1420) have been recorded within the Edison Road Truck Route and would need to be evaluated for their status as historical resources or unique archaeological resources under CEQA.

Paleontological Resources

The Edison Road Truck Route traverses seven geological units with low to high paleontological sensitivity: the late Cretaceous upper Chatsworth Formation (map unit Kcs; low to moderate sensitivity), the Paleocene lower Santa Susana Formation (Simi Conglomerate) (map unit Tsi; high sensitivity), the Eocene to Paleocene middle Santa Susana Formation (Las Virgenes Sandstone) (map unit Tsuv; high sensitivity), the Eocene to Paleocene upper Santa Susana Formation (map unit Tsu; high sensitivity), the middle Eocene lower and upper Llajas Formation (map units Tllg and Tll; high sensitivity), and Quaternary alluvium (map unit Qa; low sensitivity) (Dibblee, 1992; Dibblee and Ehrenspeck, 1992).

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Impacts to any cultural or paleontological resources would likely occur during the construction phase when the soil surface is initially disturbed. Edison Road would be decommissioned after the project is complete and therefor no further impacts to cultural resources are anticipated.

3.3.3 Edison Road Overland Conveyor

Archaeological Resources

The SCCIC records search indicated one previously recorded cultural resource (CA-VEN-734) within the Edison Road Overland Conveyor Route. This resource, a prehistoric archaeological site, is described previously in Section 3.3.2. The historic map review and site reconnaissance indicated the same results as for the Edison Road Truck Route.

The archaeological sensitivity of the Edison Road Overland Conveyor Route is considered the same as for Edison Road Truck Route, described previously (moderately sensitive on average, with the southern end, northern end, Truck Site 1, and areas with low slope having a higher sensitivity).

Because the area in general is considered sensitive for archaeological resources, if this potential option were to be selected, additional work would be necessary to ensure that potential significant resources are not adversely affected. One known cultural resource (CA-VEN-734) has been recorded within the Edison Road Overland Conveyor Route and would need to be evaluated for its status as a historical resource or unique archaeological resource under CEQA.

Paleontological Resources

The Edison Road Overland Conveyor Route traverses seven geological units with low to high paleontological sensitivity: the late Cretaceous upper Chatsworth Formation (map unit Kcs; low to moderate sensitivity), the Paleocene lower Santa Susana Formation (Simi Conglomerate) (map unit Tsi; high sensitivity), the Eocene to Paleocene middle Santa Susana Formation (Las Virgenes Sandstone) (map unit Tsuv; high sensitivity), the Eocene to Paleocene upper Santa Susana Formation (map unit Tsu; high sensitivity), the middle Eocene lower and upper Llajas Formation (map units Tllg and Tll; high sensitivity), and Quaternary alluvium (map unit Qa; low sensitivity) (Dibblee, 1992; Dibblee and Ehrenspeck, 1992).

Impacts to any cultural or paleontological resources would likely occur during the construction phase when the soil surface is initially disturbed. During the operations and decommissioning phases it is unlikely that additional resources would be discovered or disturbed.

3.3.4 North American Cutoff Road Overland Conveyor

Archaeological Resources

The SCCIC records search indicated one previously recorded cultural resource (CA-VEN-655) within the North American Cutoff Road Overland Conveyor Route. Site CA-VEN-655 is prehistoric archaeological site consisting of a lithic scatter with fire-affected rock, a projectile point fragment, and a mano fragment. The site is divided into two loci, Locus A and Locus B. Midden to the depth of 60 centimeters was observed at Locus A. Locus B has not been subject to

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subsurface investigation. The site has not been evaluated for listing in the National Register, California Register, or local historical register.

One additional resource (P-56-152383) is located immediately north of, and may extend into, Rail Site 2B. This resource is Corriganville Movie Ranch, the remains of a historic movie filming set, which later became a tourist attraction. The location map included in the site record for this resource is incorrect and does not include the bulk of the historic Corriganville area within the site boundaries. Therefore, although the site record's location map does not depict the site boundaries as overlapping with the Rail Site 2B, a field visit would be necessary to confirm this.

According to the California Office of Historic Preservation (OHP) Historic Property Data File, resource P-56-152383 has been evaluated during four separate project reviews. In two of these reviews, which appear to have been conducted concurrently, the resource was determined eligible for listing in the National Register, and therefore automatically eligible for listing in the California Register. In a subsequent review, the resource was determined not eligible for listing in the National Register. The fourth review resulted in an evaluation being submitted to the OHP, but subsequently withdrawn. The resource is also listed as a Ventura County Historical Landmark (Ventura County, 2004).

Historical map review indicates that the area surrounding much of the route is characterized by steep mountainous terrain and is undeveloped during all periods. Mapped as early as 1903 near the northern terminus of the route, are the Southern Pacific Railroad, Santa Susana Pass Road, and Santa Susana Tunnel. The historic 1903 topographic map depicts the Southern Pacific Railroad and roads corresponding with present-day Kuehner Drive and Smith Road in the vicinity of Rail Site 2B. The railroad and Smith Road, along with an unimproved extension of the road to the east of the railroad, bisect Rail Site 2B. Historic aerial photographs indicate a structure within Rail Site 2B in 1952.

The topography in the vicinity of the North American Cutoff Road Overland Conveyor Route and Rail Site 2B was observed via satellite photos and reconnaissance-level site visits conducted on December 8, 2014, and January 27, 2015. This observation of topography, along with the records search results, was used to infer the archaeological sensitivity of the route.

The northern portion of this route and Rail Site 2B should be considered to have a high sensitivity for both prehistoric and historic-period archaeological resources and built historic resources. A number of prehistoric archaeological sites are recorded in the vicinity, and the northern terminus of the route is located in proximity to water sources. In addition, this area was a significant transportation corridor during the historic period in Southern California. A number of stage and wagon roads, including CA-VEN-896 (described below) crossed the Santa Susana Pass. These roads were constructed in the early 1860s but may have had earlier manifestations dating back to the Spanish Mission period (late 18th to early 19th centuries) (Bevil, 2007).

Leaving Box Canyon Road and travelling southwest along a rocky ridgeline, the route in this area is much less archaeologically sensitive because of the steep topography.

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In general, North American Cutoff Road Overland Conveyor Route should be considered moderately to highly sensitive for cultural resources, with Rail Site 2B, the northern portion of the route, and areas with low slope having a higher sensitivity. All portions of the route have been included in past cultural resources studies; however, some of these studies are outdated.

Because the area in general is considered sensitive for archaeological resources, if this potential option were to be selected, additional work would be necessary to ensure that potential significant resources are not adversely affected. One known cultural resource (CA-VEN-655) has been recorded within this route and would need to be evaluated for its status as a historical resource or unique archaeological resource under CEQA. One additional resource (P-56-152383) is located immediately north of Rail Site 2B and its eligibility and boundaries would need to be further evaluated to confirm its significance and delineate an accurate boundary to confirm if it extends into Rail Site 2B.

Paleontological Resources

The North American Cutoff Road Overland Conveyor Route crosses three geological units of low to high paleontological sensitivity: the upper Chatsworth Formation (map unit Kcsh; low to moderate sensitivity), the lower Chatsworth Formation (map unit Kcs; moderate to high sensitivity), and Quaternary alluvium (map unit Qa; low sensitivity) (Dibblee, 1992; Dibblee and Ehrenspeck, 1992). Impacts to any cultural or paleontological resources would likely occur during the construction phase when the soil surface is initially disturbed. During the operations and decommissioning phases it is unlikely that additional resources would be discovered or disturbed.

3.3.5 North American Cutoff Road Aerial Conveyor

Archaeological Resources

The SCCIC records search indicated that three archaeological sites, CA-VEN-655, -729 and -896, are located within the North American Cutoff Road Aerial Conveyor Route. Site CA-VEN-655 is a prehistoric site, described previously under North American Cutoff Road Overland Conveyor. Site CA-VEN-729 consists of a lithic scatter with quartzite and fused shale flakes located on a knoll. CA-VEN-896 is a historic-period segment of a wagon road (the "Old Freight Road") with an unmortared native sandstone rock retaining wall and natural rock culverts. None of the sites has been evaluated for listing in the National Register, California Register, or local historical register.

The historic map review and site reconnaissance indicated the same results for this route as for the North American Cutoff Road Overland Conveyor.

The archaeological sensitivity of the North American Cutoff Road Aerial Conveyor Route is considered the same as for North American Cutoff Road Overland Conveyor, described previously (moderately to highly sensitive, with the northern end of the route, Rail Site 2B, and areas with low slope having the highest sensitivity and lesser sensitivity south of Box Canyon Road).

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Three known cultural resources (CA-VEN-655, -729 and -896) have been recorded within the route and would need to be evaluated for their status as historical resources or unique archaeological resources under CEQA.

Paleontological Resources

The North American Cutoff Road Aerial Conveyor Route crosses three geological units with low to high paleontological sensitivity: the upper Chatsworth Formation (map unit Kcsh; low to moderate sensitivity), the lower Chatsworth Formation (map unit Kcs; moderate to high sensitivity), and Quaternary alluvium (map unit Qa; low sensitivity) (Dibblee, 1992; Dibblee and Ehrenspeck, 1992). Impacts to any cultural or paleontological resources would likely occur during the construction phase when the soil surface is initially disturbed. During the operations and decommissioning phases it is unlikely that additional resources would be discovered or disturbed.

3.4 Energy Consumption

Fuel consumption was estimated for each potential option using traffic trip generation rates, CalEEMod construction equipment mix (provided in Appendix C) and usage data and anticipated construction and operations schedules. Electricity usages for the conveyor routes were determined using manufacturer specifications for required electricity to power the conveyor systems and the anticipated operations schedule. It was assumed that operations would occur during daylight hours only and that night lighting would not be required. The energy usage data sheet is provided in Appendix D.

3.4.1 Woolsey Canyon Road Truck Route

The Woolsey Canyon Road Truck Route would not require any new construction. Therefore, energy consumption would occur during the operational phase only. Operation of the Woolsey Canyon Road Truck Route would result in a maximum of 96 trucks daily for export and import of materials (resulting in 192 total daily trips). This would result in approximately 1,404,364 gallons of diesel consumed per year during operations. Because diesel-fueled trucks would be the only transportation technology used under this potential option, it is assumed that the Woolsey Canyon Road Truck Route would not require additional electricity for operations Woolsey Canyon Road would not be decommissioned after the project is complete so no additional energy consumption impacts are expected to occur after the operational phase.

3.4.2 Edison Road Truck Route

Construction of the Edison Road Truck Route and Truck Site 1 is estimated to consume a total of 478,287 gallons of diesel and 17,962 gallons of gasoline.

Operation of the Edison Road Truck Route would result in a maximum of 96 trucks daily for export and import of materials (resulting in 192 total daily trips). This would result in approximately 1,414,329 gallons of diesel consumed per year. Because diesel-fueled trucks would be the only transportation technology used under this potential option and operations

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would occur during daylight hours only, it is assumed that the Edison Road Truck Route would not require additional electricity for operations.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of electricity, diesel and gasoline from the decommissioning process is anticipated to be similar to or less than that estimated for the construction phase.

3.4.3 Edison Road Overland Conveyor

Construction equipment used to construct the Edison Road Overland Conveyor and Truck Site 1 would require a total of 175,323 gallons of diesel and 10,291 gallons of gasoline.

Operation of the Edison Road Overland Conveyor would be powered by electricity and would therefore not require diesel or gasoline fuel. Hauling material from Truck Site 1 would result in a maximum of 96 trucks daily for export of materials (resulting in 192 total daily trips). This would result in approximately 1,414,329 gallons of diesel consumed per year.

The overland conveyor would require approximately 2,620 kW to operate, for a total of approximately 440,160 kWh/month (assuming 8 hours per day and 21 days a month).

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of electricity, diesel and gasoline from the decommissioning process is anticipated to be similar to or less estimated for the construction phase.

3.4.4 North American Cutoff Road Overland Conveyor

Construction equipment used to construct the North American Cutoff Road Overland Conveyor and associated Rail Site 2B would require a total of 96,545 gallons of diesel and 8,307 gallons of gasoline.

Operation of the North American Cutoff Road Overland Conveyor would be powered by electricity and would therefore not require diesel or gasoline fuel. Fuel consumption would be dependent on fuel requirements for haul trucks and freight trains. Haul trucks used for this potential option are estimated to consume 372,092 gallons of diesel per year. Freight train hauling would consume approximately 2,746,213 gallons of diesel per year.

The overland conveyor would require approximately 2,620 kW to operate, for a total of approximately 440,160 kWh/month (assuming 8 hours a day and 21 days a month).

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of electricity, diesel and gasoline from the decommissioning process is anticipated to be similar to or less than estimated for the construction phase.

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3.4.5 North American Cutoff Road Aerial Conveyor

Construction equipment used to construct the North American Cutoff Road Aerial Conveyor and associated Rail Site 2B would require a total of 82,573 gallons of diesel and 10,241 gallons of gasoline.

Operation of the North American Cutoff Road Aerial Conveyor would be powered by electricity and would therefore not require diesel or gasoline fuel. Fuel consumption would be dependent on fuel requirements for haul trucks and freight trains. Haul trucks used for this potential option are estimated to consume 372,092 gallons of diesel per year. Freight train hauling would consume approximately 2,746,213 gallons of diesel per year.

The aerial conveyor would require approximately 351 kW to operate, for a total of 58,968 kWh/month (assuming 8 hours a day and 21 days a month).

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the quantity of electricity, diesel and gasoline from the decommissioning process is anticipated to be similar to or less than estimated for the construction phase.

3.5 Land Use Compatibility

Land use was analyzed based on the compatibility of all components of the potential options with the allowable uses established for the applicable local General Plan land use designations and zoning code. The General Plans and zoning code for Ventura County, Los Angeles County, and City of Simi Valley were reviewed in preparation of this analysis.

3.5.1 Woolsey Canyon Road Truck Route

The Woolsey Canyon Road Truck Route is located in Ventura and Los Angeles County and crosses a variety of land use designations and zones, including Residential, Commercial, Industrial, Manufacturing, Open Space, Public Facilities, and Transportation Corridor. The route is currently operating as a paved roadway system. No changes to the current land use or zoning would be needed to use this route.

3.5.2 Edison Road Truck Route

The Edison Road Truck Route is located within the city of Simi Valley and unincorporated Ventura County. Surrounding land uses include undeveloped land and residential communities.

Table 3-19 identifies the applicable General Plan land use designations and zoning.

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TABLE 3-19
EDISON ROAD TRUCK ROUTE LAND USE DESIGNATIONS AND ZONING

Jurisdiction	Land Use Designation	Zoning
Ventura County	Open Space	Open Space (OS-160ac)
		Rural Agriculture (RA-5ac)
City of Simi Valley	Open Space	Open Space
		Water Storage Facility
	Medium Density Residential	Residential (Medium Density)
	Business Park	BP - Business Park

The Edison Road Truck Route would be located on lands designated as Open Space in the Ventura County General Plan. It would also cross lands designated as Open Space, Medium Density Residential, and Business Park in the Simi Valley General Plan. The following table identifies the Edison Road Truck Route's consistency with the goals and policies identified for Open Space designated areas in the Ventura County General Plan and Simi Valley General Plan. Note that the Simi Valley General Plan does not contain goals and policies for Residential or Business Park designated areas that are applicable to implementation of this potential option. As shown in **Table 3-20**, the Edison Road Truck Route could be consistent with the land use goals and policies of the Ventura County General Plan and Simi Valley General Plan.

TABLE 3-20
EDISON ROAD TRUCK ROUTE CONSISTENCY WITH VENTURA COUNTY AND SIMI VALLEY GENERAL PLAN GOALS AND POLICIES

Goals and Policies	Consistency
Ventura County General Plan Open Space Goals:	
(3) Retain open space lands in a relatively undeveloped state so as to preserve the maximum number of future land use options.	**Consistent:** This potential option would improve an existing dirt road. Open space lands would remain in a relatively undeveloped state which would preserve the maximum number of future land use options. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
(4) Retain open space lands for outdoor recreational activities, parks, trails and for scenic lands.	**Consistent:** This potential option would improve an existing dirt road. Open space lands would remain in a relatively undeveloped state which would retain the lands for outdoor recreation activities, parks, trails and for scenic lands. This potential transportation option may incrementally diminish the natural character of the area by construction and operation of a truck route. However, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
Ventura County General Plan Open Space Policies:	
(1) Open Space should include areas of land or water which are set aside for the preservation of natural resources, including, but not limited to, areas required for the preservation of plant and animal life, including habitat for fish and wildlife species; areas required for ecologic and other scientific study purposes; rivers, streams, bays, and estuaries; and coastal beaches, lakeshores, banks of rivers and streams, and important watershed lands.	**Consistent:** This potential transportation option would improve an existing dirt road and would allow for the continued preservation of natural resources. This potential transportation option may adversely affect natural resources within the construction footprint of the route. However, the route would not be constructed on lands that are set aside for preservation. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.

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Goals and Policies	Consistency
(2) Open Space should also include areas set aside for managed production of resources, including, but not limited to, forest lands, rangeland, agricultural lands not otherwise designated Agricultural; areas required for the recharge of groundwater basins; bays, estuaries, marshes, rivers, and streams which are important for the management of commercial fisheries; and areas containing major mineral deposits, including those in short supply.	**Consistent:** This potential transportation option would improve an existing dirt road and would not preclude the managed production of resources in the area.
(3) Open Space should also include areas within which recreational activities can be pursued, including, but not limited to, areas of outstanding scenic, historic, and cultural value; areas particularly suited for park and recreation purposes, including access to lakeshores, beaches, and rivers and streams; and areas which serve as links between major recreation and open space reservations, including utility easements, banks of rivers and streams, trails, and scenic highway corridors.	**Consistent:** This potential transportation option would improve an existing road would continue to allow recreational activities. This potential transportation option may adversely affect recreation activities within the construction footprint of the route. However, the route would not be constructed on lands that are particularly suited for park and recreation purposes. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
Simi Valley General Plan GOAL LU-6: Open Space	
Open Spaces. Open space lands are preserved to maintain the visual quality of the City, provide opportunities, protect the public from safety hazards, and conserve natural resources and wildlife.	**Consistent:** This potential transportation option would improve an existing dirt road and would maintain the open space resources in the City. This potential transportation option may incrementally diminish the natural character of the area by construction and operation of a truck route. However, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete. Overall, this route would not significantly diminish open space character of the area.
Simi Valley General Plan Policies: Open Space	
LU-6.1 Scenic and Natural Areas. Provide for the preservation of significant scenic areas and corridors, plant and animal habitat, riparian areas, and significant geologic features within the City.	**Consistent:** This potential transportation option would improve an existing dirt road and would not substantially affect scenic areas and corridors, plant and animal habitat, riparian areas, and significant geologic features within the city of Simi Valley. This potential transportation option may incrementally diminish the natural character of the area by construction and operation of a truck route. However, the route would not be constructed on lands that are set aside for preservation. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
LU-6.2 Mature Trees. Continue to sustain mature trees, which are an integral part of the City's character.	**Consistent:** This potential transportation option would improve an existing dirt road and would be designed to avoid mature trees to the greatest extent feasible.
LU-6.3 Creeks and Natural Drainages. Maintain and improve the form and health of resources and habitat in the City's natural drainages. Explore restoration of those that have been degraded or channelized, such as the Arroyo Simi, as feasible, while continuing to maintain stormwater conveyance and property protection requirements.	**Consistent:** This potential transportation option would improve an existing dirt road and would be designed to reduce disturbance to natural drainages. This potential option would also require permits from CDFW and USFWS due to potential disturbance of the Arroyo Simi. Obtainment and compliance with the permits would ensure that effects on natural drainages are mitigated.
LU-6.4 Night Sky. Reduce the impacts of ambient outdoor lighting on the darkness of the night sky.	**Consistent:** This potential transportation option would not require night lighting.

The use of Edison Road as a haul road for contaminated material is not explicitly identified among the permitted uses in the Open space and Rural Agriculture zones in Ventura County. However, the haul road may be considered an accessory use. The principal use of the Edison Road Truck Route would be to haul contaminated soil from SSFL to the public roadway system via Edison Road to Guardian Street.

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The Simi Valley Zoning Ordinance also does not explicitly identify haul roads among the permitted uses in the Open Space, Residential, Water Storage Facility, and Business Park zones. However, the City may consider the haul road to be an access road, which could be an allowable use within these zones. Reasonably similar uses that also involve hazardous wastes such as motor vehicles and transportation equipment, solid waste disposal facilities and transmission/ distribution pipelines and surface facilities are allowed in this zone. Overall, implementation of the Edison Road Truck Route within Open Space, Residential, Water Storage Facility, and Business Park zones may be a compatible use and further discussion with the City of Simi Valley planning department must take place to determine whether implementation of the Edison Road Truck Route would be allowable.

3.5.3 Edison Road Overland Conveyor

The Edison Road Overland Conveyor Route is located within the City of Simi Valley and unincorporated Ventura County. Surrounding land uses include undeveloped land and residential communities of Simi Valley.

Table 3-21 identifies the applicable General Plan land use designations and zoning.

TABLE 3-21
EDISON ROAD CONVEYOR ROUTE LAND USE DESIGNATIONS AND ZONING

Jurisdiction	Land Use Designation	Zoning Designation
Ventura County	Open Space	Open Space (OS-160ac; OS-160ac/MRP)
City of Simi Valley	Open Space	Open Space
	Business Park	Business Park

NOTE: MRP: Mineral Resources Protection Overlay Zone

The Edison Road Overland Conveyor would be located on lands designated as Open Space in the Ventura County General Plan. It would also cross lands designated as Open Space and Business Park in the Simi Valley General Plan. The following table identifies the Edison Road Overland Conveyor's consistency with the goals and policies identified for Open Space designated areas in the Ventura County General Plan and Simi Valley General Plan. Note that the Simi Valley General Plan does not contain goals and policies for Business Park designated areas that are applicable to implementation of this potential transportation option. As shown in **Table 3-22**, the Edison Road Overland Conveyor could be consistent with the land use goals and policies of the Ventura County General Plan and Simi Valley General Plan.

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TABLE 3-22
EDISON ROAD CONVEYOR ROUTE CONSISTENCY WITH VENTURA COUNTY AND SIMI VALLEY GENERAL PLAN GOALS AND POLICIES

Goals and Policies	Consistency
Ventura County General Plan Open Space Goals:	
(3) Retain open space lands in a relatively undeveloped state so as to preserve the maximum number of future land use options.	**Consistent:** This potential transportation option would have limited permanent ground disturbance. Open space lands would remain in a relatively undeveloped state which would preserve the maximum number of future land use options. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete
(4) Retain open space lands for outdoor recreational activities, parks, trails and for scenic lands.	**Consistent:** This potential transportation option would have limited permanent ground disturbance. Open space lands would remain in a relatively undeveloped state which would retain the lands for outdoor recreation activities, parks, trails and for scenic lands. This potential transportation option may incrementally diminish the natural character of the area by construction and operation of a overland conveyor. However, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
Ventura County General Plan Open Space Policies:	
(1) Open Space should include areas of land or water which are set aside for the preservation of natural resources, including, but not limited to, areas required for the preservation of plant and animal life, including habitat for fish and wildlife species; areas required for ecologic and other scientific study purposes; rivers, streams, bays, and estuaries; and coastal beaches, lakeshores, banks of rivers and streams, and important watershed lands.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would allow for the continued preservation of natural resources. This potential transportation option may adversely affect natural resources within the construction footprint of the route. However, the route would not be constructed on lands that are set aside for preservation. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
(2) Open Space should also include areas set aside for managed production of resources, including, but not limited to, forest lands, rangeland, agricultural lands not otherwise designated Agricultural; areas required for the recharge of groundwater basins; bays, estuaries, marshes, rivers, and streams which are important for the management of commercial fisheries; and areas containing major mineral deposits, including those in short supply.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would allow for the continued managed production of resources.
(3) Open Space should also include areas within which recreational activities can be pursued, including, but not limited to, areas of outstanding scenic, historic, and cultural value; areas particularly suited for park and recreation purposes, including access to lakeshores, beaches, and rivers and streams; and areas which serve as links between major recreation and open space reservations, including utility easements, banks of rivers and streams, trails, and scenic highway corridors.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would continue to allow recreational activities. This potential transportation option may adversely affect recreation activities within the construction footprint of the route. However, the route would not be constructed on lands that are particularly suited for park and recreation purposes. In addition, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete.
Simi Valley General Plan GOAL LU-6: Open Space	
Open Spaces. Open space lands are preserved to maintain the visual quality of the City, provide opportunities, protect the public from safety hazards, and conserve natural resources and wildlife.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would maintain the open space resources in the City. This potential transportation option may incrementally diminish the natural character of the area by construction and operation of an overland conveyor. However, this potential transportation option is temporary and would be decommissioned after cleanup activities are complete. Overall, this route would not significantly diminish open space character of the area.

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Goals and Policies	Consistency
Simi Valley General Plan Policies: Open Space	
LU-6.1 Scenic and Natural Areas. Provide for the preservation of significant scenic areas and corridors, plant and animal habitat, riparian areas, and significant geologic features within the City.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would not be capable of significantly affecting scenic areas and corridors, plant and animal habitat, riparian areas, and significant geologic features within the City. Any work within the channel, banks or associated riparian vegetation of a drainage feature would require a permit and approval from USACE, LARWQCB, and/or CDFW prior to construction. Obtainment and compliance with the permit would ensure mitigation for any adverse effects on riparian vegetation.
LU-6.2 Mature Trees. Continue to sustain mature trees, which are an integral part of the City's character.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would be designed to avoid mature trees to the greatest extent feasible.
LU-6.3 Creeks and Natural Drainages. Maintain and improve the form and health of resources and habitat in the City's natural drainages. Explore restoration of those that have been degraded or channelized, such as the Arroyo Simi, as feasible, while continuing to maintain stormwater conveyance and property protection requirements.	**Consistent:** This potential transportation option would have limited permanent ground disturbance and would be designed to reduce adverse effects on natural drainages. Any work within the channel, banks or associated riparian vegetation of a drainage feature would require a permit and approval from USACE, LARWQCB, and/or CDFW prior to construction. Obtainment and compliance with the permit would ensure mitigation for any adverse effects on natural drainages.
LU-6.4 Night Sky. Reduce the impacts of ambient outdoor lighting on the darkness of the night sky.	**Consistent:** This potential transportation option would not require night lighting.

The Ventura County Zoning Ordinance allows the construction of pipelines, transmission lines, and aboveground facilities in Open Space Zones with obtainment of a Conditional Use Permit. The Edison Road Overland Conveyor may be categorized under this use. In addition, hazardous waste collection, treatment, and storage facilities are allowed in the Open Space zones in Ventura County with obtainment of a zoning clearance, or other ministerial approved permit.

The Simi Valley Zoning Ordinance allows the construction of pipelines, transmission lines, and aboveground facilities within the Open Space and Business Park zones through obtainment of a Conditional Use Permit. However, the Open Space Zone does not list hazardous waste collection, treatment, and storage facilities among the allowable uses. However, reasonably similar uses that also involve hazardous wastes such as oil and gas exploration and extraction and mining are allowed in the Open Space Zone with obtainment of a Conditional Use Permit. Truck Site 1 is located within the Business Park zone which also does not list hazardous waste collection, treatment and storage facilities among the allowable uses. However, reasonably similar uses that also involve hazardous wastes such as motor vehicles and transportation equipment, solid waste disposal facilities and transmission/distribution pipelines and surface facilities are allowed in this zone. Overall, further discussion with the City of Simi Valley planning department must take place to determine whether implementation of the Edison Road Overland Conveyor would be allowable.

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3.5.4 North American Cutoff Road Overland Conveyor

This route is located within unincorporated Ventura County. Surrounding land uses include undeveloped land, including Sage Ranch Park, as well as the community of Santa Susana. **Table 3-23** identifies the applicable General Plan land use designations and zoning.

TABLE 3-23
NORTH AMERICAN CUTOFF ROAD CONVEYOR ROUTE LAND USE DESIGNATIONS AND ZONING

Jurisdiction	Land Use Designation	Zoning Designation
Ventura County	Open Space (10 ac min.)	Agricultural Exclusive (AE-40ac)
		Open Space (OS-160ac; OS-40ac; OS-10ac; OS-20ac)
	Existing Community (Santa Susana)[a]	Residential Estate (RE-10,000 sf

[a]. Fig 3.22a of Ventura County General Plan policies chapter

The North American Cutoff Road Overland Conveyor would be located on lands designated as Open Space and Existing Community in the Ventura County General Plan. Table 3-22, as shown under the land use discussion for the Edison Road Overland Conveyor, identifies the overland conveyor's consistency with the goals and policies identified for Open Space designated areas in the Ventura County General Plan. The consistency analysis presented in Table 3-22 is also applicable to the North American Cutoff Road Overland Conveyor because the same use and technology is being considered under this potential option. Please note that the Ventura County General Plan does not contain goals and policies for the Existing Community designation that are applicable to implementation of the North American Cutoff Road Overland Conveyor. As shown in Table 3-22, the North American Cutoff Road Overland Conveyor would be consistent with the land use goals and policies of the Ventura County General Plan.

The Ventura County Zoning Ordinance allows the construction of pipelines, transmission lines, and aboveground facilities within the Open Space, Agricultural Exclusive, and Residential Estate zones through obtainment of a Conditional Use Permit. The North American Cutoff Road Overland Conveyor may be categorized under this use. In addition, hazardous waste collection, treatment, and storage facilities are allowed in the Open Space, Agricultural Exclusive, and Residential Estate zones in Ventura County through obtainment of a zoning clearance, or other ministerial approved permit.

Rail Site 2B is located within the city of Simi Valley. Surrounding land uses include Corrigan Regional Park, as well as industrial yards and commercial businesses. **Table 3-24** identifies the applicable General Plan land use designations and zoning.

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TABLE 3-24
RAIL SITE 2B LAND USE DESIGNATIONS AND ZONING

Jurisdiction	Land Use Designation	Zoning Designation
City of Simi Valley	Community Park	Open Space
	Commercial Recreation	Commercial Recreation
	Industrial	Light Industrial

Rail Site 2B is located on lands that are designated as Community Park, Commercial Recreation, and Industrial in the Simi Valley General Plan. There are no goals and polices for Community Park, Commercial Recreation, and Industrial designated areas that are applicable to implementation of Rail Site 2B. However, the purposes of Community Park areas are described as follows in the Simi Valley General Plan:

> *Community parks are major facilities designed to satisfy the widest spectrum of interests. In general, they are "drive-to" centers where families or organizations can find a sufficient variety of activities and opportunities, including community centers, to occupy several hours or an entire day. Community parks also provide specific or single-purpose recreational activities and amenities, such as a historical park, equestrian center, or dog park, and may draw users from surrounding communities. Community parks generally range in size from a minimum of 20 acres to 200 acres or more, depending on type and location. Themed community parks frequently entail greater space requirements than do urban, multi-purpose parks.*

Based on the established purpose of Community Park designated areas in the Simi Valley General Plan, the construction of Rail Site 2B, a hazardous waste storage facility/rail yard, may not be compatible with Community Park designated areas, which serve to provide recreational opportunities for the community. Further discussion with the City of Simi Valley must take place to determine if implementation of Rail Site 2B would be a compatible use with the Simi Valley General Plan.

The City of Simi Valley Zoning Map shows that Rail Site 2B would be located within Open Space, Commercial Recreation, and Light Industrial zones. The Open Space zone does not identify hazardous waste storage/transfer facilities and railroad facilities among the allowable uses in this zone. In addition, railroad facilities are not allowed in the Commercial and Light Industrial zones; therefore, a zone change would need to be requested from the City of Simi Valley in order to allow development of Rail Site 2B.

3.5.5 North American Cutoff Road Aerial Conveyor

This route is located within unincorporated Ventura County. Surrounding land uses include undeveloped land, Sage Ranch Park, as well as the community of Santa Susana. Table 3-24, presented in Section 3.5.4 identifies the applicable General plan land use designations and zoning for the North American Cutoff Road Aerial Conveyor Route.

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The North American Cutoff Road Aerial Conveyor would be located on lands designated as Open Space in the Ventura County General Plan. Table 3-22, as shown under the land use discussion for the Edison Road Overland Conveyor, identifies the overland conveyor's consistency with the goals and policed identified for Open Spaced designated areas in the Ventura County General Plan. While the aerial conveyor technology would result in a greater quantity of land disturbance than the overland conveyor option, the aerial conveyor's land disturbance would still be considered minimal, as only 10 support towers would be required over 3.1 miles. This would maintain the rural, undisturbed character of Open Space designated areas. As such, the consistency analysis presented in Table 3-22 is also applicable to the North American Cutoff Road Aerial Conveyor. As shown in Table 3-22, this potential option would be consistent with the land use goals and policies of the Ventura County General Plan.

The Ventura County Zoning Ordinance allows the construction of pipelines, transmission lines, and aboveground facilities within the Open Space and Agricultural Exclusive zones through obtainment of a Conditional Use Permit. The North American Cutoff Road Aerial Conveyor may be categorized under this use. In addition hazardous waste collection, treatment, and storage facilities are allowed in the Open Space and Agricultural Exclusive zones in Ventura County through obtainment of a zoning clearance, or other ministerial approved permit. Per *Section 8106-1.1-Development Standards for Uses and Structures in OS, AE and R Zones*, the maximum structure height for principal structures is 25 feet. Under an exception, the height may be increased above 25 feet to 35 feet with 15-foot setbacks on either side, or as specified by permit. This poses a potential conflict for the aerial conveyor technology as the support tower heights would range between 40 and 120 feet. The RPs would need to request a Conditional Use Permit from with Ventura County as part of the environmental review and permitting process to ensure that implementation of the North American Cutoff Road Aerial Conveyor would be an allowable use in Open Space and Agricultural Exclusive zones.

Rail Site 2B is located within the city of Simi Valley. Surrounding land uses include Corrigan Regional Park, as well as industrial yards and commercial businesses. Table 3-24, presented in Section 3.5.4 identifies the applicable General Plan land use designations and zoning for Rail Site 2B.

Rail Site 2B is located on lands that are designated as Community Park, Commercial Recreation, and Industrial in the Simi Valley General Plan. There are no goals and polices for Community Park, Commercial Recreation and Industrial designated areas that are applicable to implementation of Rail Site 2B. However, the purpose of Community Park areas is described as follows in the Simi Valley General Plan:

> *Community parks are major facilities designed to satisfy the widest spectrum of interests. In general, they are "drive-to" centers where families or organizations can find a sufficient variety of activities and opportunities, including community centers, to occupy several hours or an entire day. Community parks also provide specific or single-purpose recreational activities and amenities, such as a historical park, equestrian center, or dog park, and may draw users from surrounding communities. Community parks generally range in size from a*

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minimum of 20 acres to 200 acres or more, depending on type and location. Themed community parks frequently entail greater space requirements than do urban, multi-purpose parks.

Based on the established purpose of Community Park designated areas in the Simi Valley General Plan, the construction of Rail Site 2B, a hazardous waste storage facility/rail yard, may not be compatible with Community Park designated areas, which serve to provide recreational opportunities for the community. Coordination with the City of Simi Valley would be necessary to determine if implementation of Rail Site 2B would be compatible with the Simi Valley General Plan.

The City of Simi Valley Zoning Map shows that Rail Site 2B would be located within Open Space, Commercial Recreation, and Light Industrial zones. The Open Space zone does not identify hazardous waste storage/transfer facilities and railroad facilities among the allowable uses in this zone. In addition, railroad facilities are not allowed in the Commercial and Light Industrial zones. Further discussion with the City of Simi Valley must take place to determine if implementation of Rail Site 2B would be allowable in the Open Space, Commercial Recreation, and Light Industrial zones.

3.6 Noise

The construction and operation of all analyzed transport routes would generate noise levels that could potentially disturb nearby noise-sensitive uses that are located in proximity to the route paths. Noise sensitive land uses are defined as those specific land uses that have associated indoor and/or outdoor human activities that may be subject to stress and/or significant interference from noise produced by other sound sources in the environment. Based on the Ventura County General Plan, land uses considered to be noise-sensitive uses include residential, educational, and health facilities, research institutions, certain recreational and entertainment facilities (typically, indoor theaters and parks for passive activities), and churches. In addition, the construction of the potential transport routes would also generate groundborne vibration levels resulting from the operation of heavy off-road equipment. Sensitive receptors for vibration include structures (especially older masonry structures), people (especially residents, the elderly, and sick), and vibration sensitive equipment.

Based on a review of the potential transport route locations, the nearest sensitive land uses to these routes include primarily single-family residences that are located in unincorporated Ventura County and the city of Simi Valley. The only other non-residential sensitive land use in the area is the American Jewish University, which is located in unincorporated Ventura County. As such, for the purpose of this analysis, the construction and operational noise levels associated with the potential transport routes are assessed against the noise standards and regulations of the applicable jurisdiction (i.e., County of Ventura or City of Simi Valley) depending on the location of the nearest sensitive receptors to each of the transport routes. The noise levels used to evaluate the noise levels from the overland and aerial conveyors were taken from information provided by firms that construct these systems. The noise levels at the nearest sensitive receptors to each of the transport routes were estimated based on their distance from the construction areas. For the

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groundborne vibration analysis, the vibration levels resulting from construction activities for the potential transport routes were estimated using data published by the FTA in its *Transit Noise and Vibration Impact Assessment* (FTA, 2006) document. Similar to the noise assessment, potential vibration levels resulting from construction activities were identified for offsite sensitive receptors based on their distance from construction activities. The potential vibration levels at offsite sensitive locations resulting from implementation of the potential transport routes were analyzed against the vibration thresholds established by the FTA to determine whether an exceedance of allowable vibration levels would occur.

Prior to evaluating the noise and groundborne vibration effects on sensitive receptors located in proximity to each of the potential transport routes, a brief introduction to the noise and vibration descriptors that would be used in this analysis are provided below.

Noise and Vibration Descriptors

Noise levels are measured in decibels (dB), which is the standard unit of sound amplitude measurement. The dB scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound, with 0 dB corresponding roughly to the threshold of human hearing and 120 to 140 dB corresponding to the threshold of pain. Pressure waves traveling through air exert a force registered by the human ear as sound. Sound pressure fluctuations can be measured in units of hertz (Hz), which correspond to the frequency of a particular sound. Because the typical human ear is not equally sensitive to all frequencies of the audible sound spectrum, when assessing potential noise impacts sound is measured using an electronic filter that deemphasizes the frequencies below 1,000 Hz and above 5,000 Hz in a manner corresponding to the human ear's decreased sensitivity to extremely low and extremely high frequencies. This method of frequency weighting is referred to as A-weighting and is expressed in units of A-weighted decibels (dBA). A-weighting follows an international standard methodology of frequency de-emphasis and is typically applied to community noise measurements. All noise levels presented in this feasibility analysis are A-weighted unless otherwise stated. Additionally, the noise descriptors presented in this analysis include the equivalent sound level (L_{eq}), which is used to describe noise over a specified period of time in terms of a single numerical value (the L_{eq} may also be referred to as the average sound level) and the community noise equivalent level (CNEL), which is the average A-weighted noise level during a 24-hour day that is obtained after an addition of 5 dBA to measured noise levels between the hours of 7:00 P.M. to 10:00 P.M. and after an addition of 10 dBA to noise levels between the hours of 10:00 P.M. to 7:00 A.M. to account for noise sensitivity in the evening and nighttime, respectively.

With respect to groundborne vibration, the effects could include building damage and human annoyance. There are several different methods that are used to quantify vibration. The peak particle velocity (PPV) is defined as the maximum instantaneous peak of the vibration signal. The PPV is most frequently used to describe vibration impacts to buildings. The root mean square (RMS) amplitude is most frequently used to describe the effect of vibration on the human body (i.e., annoyance). The RMS amplitude is defined as the average of the squared amplitude of the signal. Decibel notation (VdB) is commonly used to measure RMS and acts to compress the range of numbers required to describe vibration. The relationship of PPV to RMS velocity is

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expressed in terms of the "crest factor," defined as the ratio of the PPV amplitude to the RMS amplitude. PPV is typically a factor of 1.7 to 6 times greater than RMS vibration velocity.

3.6.1 Woolsey Canyon Road Truck Route

The Woolsey Canyon Road Truck Route consists entirely of existing roads and would not require new construction for use as a haul route. As part of the overall site cleanup, a maximum of 96 trucks would visit the site for export and import of materials (resulting in 192 total trips). Soil haul trucks entering and leaving the SSFL site would need to travel on Woolsey Canyon Road. As such, the existing residential homes of the Summit Mobile Home Community would be exposed to increased traffic noise levels from these haul trucks as well as from construction worker vehicles.

To assess potential traffic-related noise impacts resulting from the SSFL project, the traffic noise levels generated by the peak hour traffic volumes on the 12 local roadway segments analyzed in the SSFL project traffic study under the "future with project" conditions were compared to those under the "future without project" conditions.

The peak hour estimated roadway noise on the 12 roadway segments analyzed in the SSFL cleanup traffic study under the scenario with a maximum of 96 daily haul trucks is shown in **Table 3-25**.

As shown in Table 3-25, with the exception of the roadway segment of Woolsey Canyon Road, between Valley Circle Boulevard and Knapp Ranch Road, and the segment of Facility Road extending from the SSFL site entrance to Woolsey Canyon Road, all of the study roadway segments would experience increases in peak hour noise levels of less than 5 dBA over future baseline conditions under the scenario where a maximum of 192 daily truck trips would occur under the project. Thus, traffic noise levels on these roadways would not be readily perceptible. However, because the addition of the SSFL cleanup-related haul truck and worker vehicle trips would increase the peak hour noise levels on Woolsey Canyon Road and Facility Road by 7.8 dBA L_{eq} and 5.0 dBA L_{eq}, respectively, a potential impact related to a substantial increase in noise levels above ambient conditions would occur on these roadway segments. The traffic noise increase on this roadway is due to Woolsey Canyon Road being the designated access point to the project site by the project's construction-related traffic. Due to the low volume of vehicles that currently travel on this roadway, the addition of the project's daily 192 truck trips along with worker trips would result in a readily perceptible increase in noise levels on this roadway. Because the increase in traffic noise levels on Woolsey Canyon Road and Facility Road would be a direct result of the project's traffic, mainly due to the haul trucks, mitigation would be required. Construction of noise barriers along Facility Road and Woolsey Canyon Road would mitigate these significant noise impacts, however, it may not be feasible, practical, or acceptable to construct a noise barrier for the duration of the project, due to potential objections by property owners and other constraints. It should be noted, that the 192 total daily truck trips would only occur on peak construction days, while on most days, a smaller number of trucks would be used to transport materials to and from the project site. Nonetheless, on peak construction days when

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the maximum number of 192 truck trips travel to and from the project site, a substantial increase in traffic noise levels on these roadways would occur.

TABLE 3-25
PEAK HOUR ROADWAY NOISE LEVELS WITH PROJECT – MAXIMUM (96) HAUL TRUCKS

	Noise Levels in dBA L_{eq} (hourly)[a]				
Roadway Segment	**Baseline (2015) Traffic Volumes**	**Future (2038) With Project Traffic Volumes**	**Increase**	**Significance Threshold[b]**	**Exceeds Threshold?**
Box Canyon Road, between Santa Susana Pass Road and Roberson Road	55.5	56.6	1.1	3.0	No
Santa Susana Pass Road, between Rocky Peak Road and Box Canyon Road	54.1	55.2	1.1	3.0	No
Woolsey Canyon Road, between Valley Circle Boulevard and Knapp Ranch Road	54.7	62.5	7.8	5.0	Yes[d]
Valley Circle Boulevard, between Box Canyon Road and Woolsey Canyon Road	55.6	57.0	1.4	5.0	No
Valley Circle Boulevard, between Plummer Street and Schumann Road	59.4	60.8	1.2	5.0	No
Plummer Street, between Valley Circle Boulevard and Farralone Avenue	61.4	62.7	1.3	5.0	No
Valley Circle Boulevard, between Woolsey Canyon Road and Chatlake Drive	60.6	62.4	1.8	5.0	No
Roscoe Boulevard, between Woodlake Avenue and Shoup Avenue	64.3	65.9	1.6	5.0	No
Roscoe Boulevard, between Shoup Avenue and Farralone Avenue	68.4	69.6	1.2	5.0	No
Valley Circle Boulevard, between Vanowen Street and Victory Boulevard	68.9	70.0	1.1	5.0	No
Valley Circle Boulevard, between Burbank Boulevard and US 101	69.1	70.2	1.1	5.0	No
Facility Road at Woolsey Canyon Road[c]	30.2	35.2	5.0	3.0	Yes

NOTES:

[a] Values represent noise levels at 100 feet from the centerline of the roadway.

[b] For the purpose of this analysis a substantial increase in traffic noise levels would occur if the project's haul truck and construction worker vehicle trips would contribute to a traffic noise level increase of 3 dBA or greater over existing ambient noise levels within the County of Ventura and 5 dBA or greater over existing ambient noise levels within the County of Los Angeles and the City of Los Angeles.

[c] Noise levels for this roadway are based on the distance of 1,300 feet where actual noise sensitive receiver is located and traffic volumes are the same as Woolsey Canyon Road due to the lack of information.

[d] Because the grade of Woolsey Canyon Road exceeds 5 percent, TNM was used to estimate noise levels, which were the average of 20 front row house locations at Summit Mobile Home Community.

SOURCE: KOA, 2016; ESA, 2016.

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Woolsey Canyon Road would not be decommissioned. Therefore, no additional noise impacts would be anticipated.

3.6.2 Edison Road Truck Route

Implementation of the Edison Road truck route would require significant grading to provide a paved, all-weather roadway usable by trucks for soil transport. In constructing this 3-mile corridor, earthwork and other construction needs would encompass an area of up to 88 acres. Along this truck route, the nearest noise-sensitive uses include the following:

- The single-family residences located along Pepper Tree Lane approximately 115 feet south of the southern end of this route.
- The American Jewish University located approximately 3,950 feet to the east of the truck route, within unincorporated Ventura County.
- The single-family residences located approximately 2,380 feet east of the truck route, near Pepper Tree Lane, within unincorporated Ventura County.
- The single-family residential uses located approximately 1,365 feet west of the truck route, along Green Pine Place in the city of Simi Valley.
- The single-family residences located approximately 1,260 feet north of the truck route, fronting Royal Avenue in the city of Simi Valley.

With respect to the offsite receptors located in unincorporated Ventura County, because specific construction noise limits for noise-sensitive locations are not currently specified in the General Plan or administrative code, the *County of Ventura Construction Noise Threshold Criteria and Control Plan* (2005) was developed to establish construction noise thresholds for use on all discretionary development projects and ministerial development permits. Based on this plan, the typical sensitive time periods for residential uses (both single- and multi-family) with respect to construction noise are during the evening (7:00 P.M. to 10:00 P.M.) and nighttime (10:00 P.M. to 7:00 A.M. from Monday through Friday, and 10:00 P.M. to 9:00 A.M. on Saturdays) hours, while for school uses the typical sensitive time periods for construction noise are during the daytime (7:00 A.M. to 7:00 P.M. from Monday through Friday, and 9:00 A.M. to 7:00 P.M. on Saturdays) and evening hours.

Because construction activities for the potential truck route would occur during daylight hours (i.e., 7:00 A.M. to 7:00 P.M.), the nearest single-family residences located east and south of the potential truck route, near Pepper Tree Lane, would not be subject to noise-related disturbances during the evening and nighttime periods. Additionally, given the distance of this offsite receptor from the potential truck route (2,380 feet), construction-related noise levels at this receptor would also not be expected to exceed the construction noise thresholds identified in the *County of Ventura Construction Noise Threshold Criteria and Control Plan* even if longer work days during the summer months were to extend into the evening hours. Furthermore, although the typical sensitive time periods for construction noise at school uses are during the daytime and evening hours, the construction noise levels at the American Jewish University campus, which is located approximately 3,950 feet away from the route, would be attenuated by distance to a degree such that this offsite sensitive receptor would not be subject to noise-related disturbances.

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As for the offsite sensitive receptors located in the city of Simi Valley, noise levels associated with construction activities in the city are regulated via permitted hours of operation rather than with a numerical noise standard. Specifically, Section 5-16.02 of the City of Simi Valley's Municipal Code prohibits construction-related activities from occurring outside the hours of 7:00 A.M. and 7:00 P.M. Although the potential truck route is located within unincorporated Ventura County and is not subject to the noise regulations of the city of Simi Valley, it is anticipated that generally construction activities for this truck route would occur within the hours of 7:00 A.M. to 7:00 P.M. Additionally, although there might be occasions where construction of the potential truck route could go further into the evening and nighttime hours, it is expected that, given the distances of these receptors from the potential truck route, any noise levels generated during construction would be attenuated to a degree where a noise nuisance would not occur at these receptors.

Overall, none of the identified nearest offsite sensitive receptors from this potential option are expected to be exposed to noise levels generated from construction of the potential truck route that would result in any potential noise nuisances. Thus, effects from construction noise would be the same as those occurring under the cleanup project at the SSFL site.

While low levels of groundborne vibration from the operation of heavy off-road equipment (dozers, loaders, backhoes, haul trucks, etc.) for construction of the potential truck route would generate vibrations that propagate though the ground, the intensity of the vibrations would diminish rapidly with distance from the source. As recommended in the Ventura County Initial Study Assessment Guidelines, the assessment of potential vibration effects should be conducted using the Federal Transit Administration's (FTA) recommended methodology and criteria. Based on the FTA criteria, construction effects relative to building damage from groundborne vibration would be considered significant if any of the following were to occur:

- Project construction activities would cause a PPV groundborne vibration level to exceed 0.5 in/sec at a reinforced concrete, steel, or timber building.
- Project construction activities would cause a PPV groundborne vibration level to exceed 0.3 in/sec at any engineered concrete and masonry building.
- Project construction activities would cause a PPV groundborne vibration level to exceed 0.2 in/sec at any non-engineered timber and masonry buildings.
- Project construction activities would cause a PPV ground-borne vibration level to exceed 0.12 in/sec at any buildings "extremely susceptible to vibration damage" (i.e., a historical building).

In addition, the FTA has also adopted standards associated with human annoyance for groundborne vibration for the following three land-use categories: Vibration Category 1 – High Sensitivity, Vibration Category 2 – Residential, and Vibration Category 3 – Institutional. The FTA defines Category 1 as buildings where vibration would interfere with operations within the building, including vibration-sensitive research and manufacturing facilities, hospitals with vibration-sensitive equipment, and university research operations. Vibration-sensitive equipment includes, but is not limited to, electron microscopes, high-resolution lithographic equipment, and

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normal optical microscopes. Category 2 refers to all residential land uses and any buildings where people sleep, such as hotels and hospitals. Category 3 refers to institutional land uses such as schools, churches, other institutions, and quiet offices that do not have vibration-sensitive equipment, but still have the potential for activity interference. The vibration thresholds associated with human annoyance for these three land-use categories are shown in **Table 3-26**. No thresholds have been adopted or recommended for commercial and office uses.

TABLE 3-26
GROUNDBORNE VIBRATION CRITERIA FOR GENERAL ASSESSMENT

Land Use Category	Frequent Events [a]	Occasional Events [b]	Infrequent Events [c]
Category 1: Buildings where vibration would interfere with interior operations.	65 VdB[d]	65 VdB[d]	65 VdB[d]
Category 2: Residences and buildings where people normally sleep.	72 VdB	75 VdB	80 VdB
Category 3: Institutional land uses with primarily daytime use.	75 VdB	78 VdB	83 VdB

[a] "Frequent Events" is defined as more than 70 vibration events of the same source per day.
[b] "Occasional Events" is defined as between 30 and 70 vibration events of the same source per day.
[c] "Infrequent Events" is defined as fewer than 30 vibration events of the same kind per day.
[d] This criterion is based on levels that are acceptable for most moderately sensitive equipment such as optical microscopes.

SOURCE: FTA, 2006.

The various PPV vibration velocities and their corresponding decibels (VdB) for several types of construction equipment that can generate perceptible vibration levels are identified in **Table 3-27**.

TABLE 3-27
VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT

	Approximate PPV (in/sec)					Approximate Vibration Decibel (VdB)				
Equipment	**25 Feet**	**50 Feet**	**60 Feet**	**75 Feet**	**100 Feet**	**25 Feet**	**50 Feet**	**60 Feet**	**75 Feet**	**100 Feet**
Large Bulldozer	0.089	0.031	0.024	0.017	0.011	87	78	76	73	69
Hoe Ram	0.089	0.031	0.024	0.017	0.011	87	78	76	73	69
Caisson Drilling	0.089	0.031	0.024	0.017	0.011	87	78	76	73	69
Loaded Trucks	0.076	0.027	0.020	0.015	0.010	86	77	75	72	68
Jackhammer	0.035	0.012	0.009	0.007	0.004	79	70	68	65	61
Small Bulldozer	0.003	0.001	0.0008	0.0006	0.0004	58	49	47	44	40

Note: in/sec = inches per second.

SOURCE: FTA, 2006.

As shown in Table 3-27, vibration levels generated from heavy off-road construction equipment (e.g., large bulldozer) would attenuate with distance to approximately 0.01 inches per second

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PPV, or 69 VdB, at 100 feet from the equipment. Given that the nearest offsite sensitive receptors would be located at much greater distances than 100 feet from the construction equipment used for the potential truck route, the vibration levels at these receptors would also be much lower and would not be perceptible. Thus, similar to the cleanup project at the SSFL site, adverse effects associated with vibration levels resulting from construction of the potential truck route would be minimal.

With respect to operational noise levels, because no noise-sensitive uses would be located directly adjacent to and along the potential truck route, the truck trips traveling along this 3-mile corridor would not adversely affect any sensitive receptors. At the end of Edison Road, haul trucks would access the local roadway network at Guardian Street and would travel to SR 118 via Tapo Canyon Road. Trucks would generate increased noise levels at noise-sensitive uses (residences) located along Tapo Canyon Road. As such, these existing residential uses would be exposed to increased noise levels associated with the project's truck traffic over the duration of the soil transportation operation. Thus, whereas the residences associated with the Summit Mobile Home Community would experience significant noise increases from the project's truck traffic traveling along Woolsey Canyon Road, the existing residences located on Tapo Canyon Road would be affected instead under this potential option.

To assess potential traffic-related noise exposure on noise-sensitive land uses located along Tapo Canyon Road, the traffic noise levels generated by the peak hour traffic volumes on this roadway segment under the "future with project" conditions were compared to those under the "future without project" conditions.[15] This analysis was conducted for the segment of Tapo Canyon Road that is currently fronted by residential land uses, which is the segment located between Los Angeles Avenue and Cochran Street.

The peak hour roadway noise levels resulting from the addition of construction-related traffic on Tapo Canyon Road under the scenario with a maximum of 96 daily haul trucks are shown in **Table 3-28**.

As shown in Table 3-28, the roadway segment of Tapo Canyon Road that is fronted by noise-sensitive land uses (i.e., residential uses) would experience increases in peak hour traffic noise levels of less than 5 dBA over future baseline conditions under the scenario where a maximum of 96 trucks per day (192 daily round-trips) would occur. Thus, noise related to traffic noise levels on this roadway would be less than significant.

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[15] The traffic volumes on Tapo Canyon Road were obtained from the *Santa Susana Field Laboratory Transportation Feasibility Analysis* prepared by KOA Corporation. The year 2038 was selected as the future analysis year because it represents the highest potential year within the cleanup project's remediation timeline, providing an adequate amount of background traffic growth to define a conservative analysis baseline.

TABLE 3-28
PEAK HOUR ROADWAY NOISE LEVELS – MAXIMUM (96) HAUL TRUCKS

	Noise Levels in dBA L_{eq}(hourly)[a]				
Roadway Segment	**Future (2038) Without Project Traffic Volumes**	**Future (2038) With Project Traffic Volumes**	**Increase**	**Significance Threshold[b]**	**Significant?**
Tapo Canyon Road, between Los Angeles Avenue and Cochran Street	68.2	68.3	0.1	5.0	No

NOTES:

[a] Values represent noise levels at 100 feet from the centerline of the roadway.

[b] As was used for the cleanup project's analysis, a traffic noise level increase of 5 dBA or greater is considered to be a substantial increase in traffic noise levels, since a change of 5 dBA in an exterior environment is considered to be readily perceptible.

SOURCE: KOA, 2016;ESA 2015. Calculation data and results provided in Appendix E.

Overall, whereas the residences associated with the Summit Mobile Home Community would experience significant noise increases from the project's construction-related traffic traveling along Woolsey Canyon Road under the cleanup project at the SSFL site, construction-related traffic on Tapo Canyon Road would be minimal. Therefore, under this potential truck route, construction-related traffic on Tapo Canyon Road would be less in magnitude than those on Woolsey Canyon Road.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, noise from the decommissioning process is anticipated to be similar to or less than the estimates for the construction phase.

3.6.3 Edison Road Overland Conveyor

Implementation of the Edison Road Overland Conveyor route would require the disturbance of approximately 11,400 square feet of land area. As this potential option would run generally along the existing Edison Road, the nearest noise-sensitive uses to this potential overland conveyor route would also be those identified for the potential Edison Road Truck route, which includes:

- The American Jewish University located approximately 3,950 feet to the east, within unincorporated Ventura County.
- The single-family residences located approximately 2,380 feet east, near Pepper Tree Lane, within unincorporated Ventura County.
- The single-family residential uses located approximately 1,365 feet west, along Green Pine Place in the city of Simi Valley.
- The single-family residences located approximately 1,260 feet north, fronting Royal Avenue in the city of Simi Valley.

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- The single-family residences located along Pepper Tree Lane 115 feet south of the southeastern portion of Truck Site 1.

Based on information provided by the FTA, vibration levels generated from heavy off-road construction equipment (e.g., large bulldozer) would attenuate with distance to a PPV of approximately 0.01 inches per second or 69 vibration decibels (VdB), at 100 feet from the equipment. These vibration levels at 100 feet would not exceed the FTA's vibration criteria for building damage (even at buildings categorized as being extremely susceptible to vibration damage) or human annoyance. Given that the nearest offsite sensitive receptor is located 115 feet from Truck Site 1, the vibration levels at this closest offsite receptor would not result in any adverse effects. Overall, construction-related noise and vibration would be the same as those occurring under the cleanup project at the SSFL site.

The use of Truck Site 1 on the approximately 4.7-acre site would require surface grading and paving of the site. The nearest offsite sensitive receptor to this site would be the single-family residential uses located to the southeast, with the nearest residential property located approximately 115 feet away in unincorporated Ventura County. During the grading and paving activities, these nearest residential uses would be exposed to temporary increased noise levels. While construction activities occurring during the daytime hours are not considered to be a sensitive time period for residential uses under the *County of Ventura Construction Noise Threshold Criteria and Control Plan*, construction activities that occur in the evening and nighttime time periods are prohibited from exceeding 50 L_{eq}(h) dBA and 45 L_{eq}(h) dBA, respectively, at residential uses. As such, under conditions where construction would occur during the evening or nighttime hours at the potential Truck Site 1, the noise levels at the nearest offsite sensitive receptors would exceed the noise criteria established under the *County of Ventura Construction Noise Threshold Criteria and Control Plan*. While not anticipated, if construction was undertaken during evening and nighttime, noise associated with construction of Truck Site 1 would be greater than those for the cleanup activities at the SSFL site.

Because no noise-sensitive uses would be located directly adjacent to or along the potential overland conveyor route, the operational noise levels associated with this system along the approximately 2.58-mile-long route would not adversely affect any sensitive receptors. Noise levels generated from the conveyor system would be relatively lower than those generated from trucks. The rollers for the overland conveyor could reach up to 66 dBA at one meter from the noise source, while the drive motors, which are located at both ends of the conveyor, could reach up to 85 dBA at one meter from the noise source. Given the 85 dBA noise level at a distance of one meter from the drive motor at the end of the conveyor and the distance of the nearest noise-sensitive receptors from the conveyor route (i.e., the single-family residences located approximately 1,260 feet north of the route in the city of Simi Valley), the estimated noise level at these receptors would be approximately 33 dBA. This relatively low noise level would not be audible at the nearest offsite residential uses and thus would not result in a noise disturbance. Section 5-16.02 of the City of Simi Valley Municipal Code specifically regulates noise generated by engines, motors, and mechanical devices in and near residential districts by prohibiting their operation in between the hours of 11:00 P.M. to 7:00 A.M. on Friday or Saturday, and between

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the hours of 10:00 P.M. to 7:00 A.M. on Sunday through Thursday unless these noise sources are enclosed to ensure that noise would not be audible within 10 feet of any residence. As the potential overland conveyor would not operate between these prohibited hours, the applicable noise regulations of the City of Simi Valley would not be violated. Overall, the operational noise levels generated by the conveyor along Edison Road under this potential option would be lower than those generated by truck traffic under the Edison Road Truck Route option.

Trucks would travel offsite from Truck Site 1 and onto the local roadways to access SR 118. This truck traffic would generate increased noise levels at noise-sensitive uses (residences, schools, hospitals, etc.) located along the local roadways. It is anticipated that truck traffic traveling from Truck Site 1 to SR-118 would access Tapo Canyon Road, which has residential uses fronting the roadways. As such, these existing residential uses would be exposed to increased noise levels associated with the project's truck traffic over the duration of the soil transportation operation. As analyzed under the Edison Truck Route, it was determined that the noise associated with construction-related traffic on Tapo Canyon Road would be minimal under. Thus, whereas the residences associated with the Summit Mobile Home Community would experience significant noise increases from the project's construction-related traffic traveling along Woolsey Canyon Road under the overall cleanup project at the SSFL site, noise associated with construction-related traffic on Tapo Canyon Road would be less in magnitude. The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, noise from the decommissioning process is anticipated to be similar to or less than the estimates for the construction phase.

3.6.4 North American Cutoff Road Overland Conveyor

Implementation of the North American Cutoff Road Overland Conveyor Route would require the disturbance of approximately 20,400 square feet of land area. Along this potential overland conveyor route, the nearest and most notable noise-sensitive uses include the following:

- The single-family residences on Del Mar Trail located approximately 413 feet northwest of the overland conveyor in unincorporated Ventura County.
- The single-family residences located off of Roberson Road and approximately 625 feet southeast of the overland conveyor in unincorporated Ventura County.
- The single-family residences located directly north of Smith Road and approximately 1,330 feet northwest of the overland conveyor in the city of Simi Valley.

As discussed previously, based on the *County of Ventura Construction Noise Threshold Criteria and Control Plan*, the typical sensitive time periods for residential uses (both single- and multi-family) with respect to construction noise are during the evening (7:00 P.M. to 10:00 P.M.) and nighttime (10:00 P.M. to 7:00 A.M. from Monday through Friday, and 10:00 P.M. on Saturdays) hours. As the construction activities for the potential overland conveyor route are generally expected to occur during daylight hours (i.e., 7:00 A.M. to 7:00 P.M.), the nearest single-family residences identified above that are located to the northwest and southeast of the potential overland conveyor route would not be subject to noise-related disturbances during the evening and nighttime periods. However, there might be times where longer work days would occur

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during the summer months. Given that the nearest offsite single-family residences within unincorporated Ventura County are located within 1,000 feet of the potential overland conveyor route, under conditions where construction work occurs during the evening and/or nighttime hours, there could be a potential for noise levels at these offsite receptors to exceed the evening and nighttime noise criteria of 50 L_{eq}(h) dBA and 45 L_{eq}(h) dBA, respectively, established under the *County of Ventura Construction Noise Threshold Criteria and Control Plan*. Under this condition, the noise associated with construction activity for this potential option would be greater than those for the cleanup activities at the SSFL site because it was determined that the cleanup activities within the SSFL site would not exceed any of the construction noise threshold criteria established in the *County of Ventura Construction Noise Threshold Criteria and Control Plan*. However, it should be noted that construction of the overland conveyor route would occur for approximately 15 months, and as such any noise associated with construction activities occurring into the evening and nighttime hours are only expected to occur periodically over the 15-month window.

As for the offsite sensitive receptors located in the city of Simi Valley, Section 5-16.02 of the City of Simi Valley's Municipal Code prohibits construction-related activities from occurring outside the hours of 7:00 A.M. and 7:00 P.M. Although the potential overland conveyance route is located within unincorporated Ventura County and is not subject to the noise regulations of the City of Simi Valley, it is anticipated that generally construction activities for this truck route would occur within the hours of 7:00 A.M. to 7:00 P.M. Although there might be occasions where construction of the potential overland conveyance system could go further into the evening and nighttime hours, it is expected that, given the distances of these receptors from the potential overland conveyance route, any noise levels generated during construction would be attenuated to a degree where a noise nuisance would not occur at these receptors.

Based on information provided by the FTA, vibration levels generated from heavy off-road construction equipment (e.g., large bulldozer) would attenuate with distance to approximately 0.01 inches per second PPV, or 69 VdB, at 100 feet from the equipment. Given that the nearest offsite sensitive receptors would be located at much greater distances than 100 feet from the construction equipment used for the potential overland conveyance route, the vibration levels at these receptors would also be much lower and would not be perceptible. None of the FTA's vibration criteria associated with building damage or human annoyance would occur at the nearest offsite sensitive land uses would occur from construction of this potential overland conveyor route. Thus, similar to the cleanup project at the SSFL site, adverse effects associated with vibration levels resulting from construction of the potential overland conveyance route would be less than significant.

Because no noise-sensitive uses would be located directly adjacent to and along the potential overland conveyor route, the operational noise levels associated with this system along the approximately 3-mile-long route would not adversely affect any sensitive receptors. Noise levels generated from conveyor systems are relatively low when compared to other soil transportation options such as the use of trucks. The rollers for the overland conveyor could reach up to 66 dBA at one meter from the noise source, while the drive motors, which are located at both ends of the

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conveyor, could reach up to 85 dBA at one meter from the noise source. Given the distance of the nearest noise-sensitive receptors from the conveyor route (i.e., single-family residences on Del Mar Trail located approximately 413 feet northwest of the overland conveyor in unincorporated Ventura County) and conservatively using the 85 dBA reference noise level for a drive motor at a distance of one meter from the noise source, the estimated noise level at these receptors would be approximately 43 dBA. This noise level would not exceed the County's applicable daytime, evening, and nighttime construction activity noise threshold criteria of 55, 50, and 45 dBA L_{eq}(h), respectively. Additionally, as the nearest offsite sensitive receptor located in the city of Simi Valley is located even further away (i.e., approximately 1,330 to the northwest), the result noise levels at these receptors from operation of the overland conveyor would not be audible and thus would not result in a noise disturbance. Section 5-16.02 of the City of Simi Valley Municipal Code specifically regulates noise generated by engines, motors, and mechanical devices in and near residential districts by prohibiting their operation in between the hours of 11:00 P.M. to 7:00 A.M. on Friday or Saturday, and between the hours of 10:00 P.M. to 7:00 A.M. on Sunday through Thursday unless these noise sources are enclosed to ensure that noise would not be audible within 10 feet of any residence. As the potential overland conveyor would not operate between these prohibited hours, the applicable noise regulations of the City of Simi Valley would not be violated. Overall, when compared to the cleanup project at the SSFL site, which would result in significant noise increases at the residential uses located along Woolsey Canyon Road, the use of this potential overland conveyor system route would not affect any noise-sensitive uses located in the vicinity of this route.

Use of Rail Site 2B would require surface grading and potentially paving of the site. The nearest and most notable noise-sensitive uses in the vicinity of the site include:

- The single-family residences located approximately 195 feet to the south, across the railroad tracks in unincorporated Ventura County.
- The single-family residences located approximately 526 feet to the northwest, across Smith Road, in the city of Simi Valley.

While construction activities occurring during the daytime hours are not considered to be a sensitive time period for residential uses under the *County of Ventura Construction Noise Threshold Criteria and Control Plan*, construction activities that occur in the evening and nighttime time periods are prohibited from exceeding 50 L_{eq}(h) dBA and 45 L_{eq}(h) dBA, respectively, at residential uses. As such, under conditions where construction would occur during the evening or nighttime hours at the potential Rail Site 2B, the noise levels at the nearest offsite sensitive receptors would exceed the noise criteria established under the *County of Ventura Construction Noise Threshold Criteria and Control Plan*. Under these conditions, noise associated with construction activity for Rail Site 2B would be greater than those for the cleanup activities at the SSFL site.

As for the offsite sensitive receptors located in the city of Simi Valley, Section 5-16.02 of the City of Simi Valley's Municipal Code prohibits construction-related activities from occurring outside the hours of 7:00 A.M. and 7:00 P.M. Although Rail Site 2B is located within unincorporated Ventura County and is not subject to the noise regulations of the City of Simi

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Valley, it is anticipated that generally construction activities at this site would occur within the hours of 7:00 A.M. to 7:00 P.M. However, under occasions where construction activities at Rail Site 2B would go further into the evening and nighttime hours, it is expected that, given the nearest offsite receptors in the City are located within 1,000 feet of the site, noise levels generated during construction could result in a nuisance at these receptors.

Based on information provided by the FTA, vibration levels generated from heavy off-road construction equipment (e.g., large bulldozer) would attenuate with distance to a PPV of approximately 0.01 inches per second, or 69 vibration decibels (VdB), at 100 feet from the equipment. Given that the nearest offsite sensitive receptors would be located at much greater distances than 100 feet from the construction equipment used at Rail Site 2B, the vibration levels at these receptors would also be much lower and would not be perceptible. As such, none of the FTA's vibration criteria associated with building damage or human annoyance would occur at the nearest offsite sensitive land uses would occur from construction activities at Rail Site 2B. Thus, similar to the cleanup project at the SSFL site, adverse effects associated with vibration levels resulting from construction activities at Rail Site 2B would be minimal.

The number of trains on the main line (year 2016) past the site is as follows:

- Metrolink commuter trains: 16 per day (8 each direction)
- Surfliner intercity trains: 12 per day (6 each direction)
- Amtrak long distance trains (Coast Starlight): 2 per day (1 each direction)
- Freight trains: highly variable, since freight trains do not operate on a set schedule. Recent information indicates there are currently 4 to 8 freight trains per day operating past the project site.

It is likely that there would be additional trains operating along this route in the future. However, the exact number is uncertain, since passenger trains (unlike freight trains) rely on public funding, while the frequency of freight trains is generally responsive to business cycles. Thus, an accurate estimate of the number of trains in the future cannot be provided at this time.

While the use of freight trains to transport soil offsite would not involve introducing a new noise source in the area, given that the corridor currently is used by both passenger and freight trains, the use of rail for the transport of the project's soil would result in increased freight train trips on the corridor by one train per day. In turn, the additional frequency by which the train tracks are used for the project could result in additional temporary noise effects on nearby sensitive land uses that may be located along and in the vicinity of the train tracks.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, noise from the decommissioning process is anticipated to be similar to or less than the estimate for the construction phase.

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3.6.5 North American Cutoff Road Aerial Conveyor

Implementation of the North American Cutoff Road Aerial Conveyor system would require the disturbance of approximately 3 acres of land. As this potential option would run generally along the same route as the potential overland conveyor route, the nearest noise-sensitive uses to this potential route option would also be those identified above for the potential overland conveyance route option.

Similar to the evaluation of the potential overland conveyor route, it is anticipated that during times where longer work days would occur during the summer months, there could be a potential for noise levels at the nearest offsite receptors located within unincorporated Ventura County to exceed the evening and nighttime noise criteria of 50 L_{eq}(h) dBA and 45 L_{eq}(h) dBA, respectively, established under the *County of Ventura Construction Noise Threshold Criteria and Control Plan*. Under this condition, noise associated with construction activity for this potential option would be greater than those for the cleanup activities at the SSFL site. However, it should be noted that construction of the aerial conveyor route would occur for approximately 2 years only, and as such any noise associated with construction activities occurring into the evening and nighttime hours are only expected to occur periodically over the 2-year window. As for the offsite sensitive receptors located in the city of Simi Valley, which are located approximately 1,330 feet away from the potential aerial conveyor route, it is expected that any noise levels generated during construction would be attenuated to a degree where a noise nuisance would not occur at these receptors.

Similar to the potential overland conveyor system, the vibration levels at all of the identified nearest offsite sensitive receptors would not be perceptible given their distances from the construction area, and none of the FTA's vibration criteria associated with building damage or human annoyance would occur at the nearest offsite sensitive land uses would occur from construction of this potential aerial conveyor route. Thus, similar to the cleanup project at the SSFL site, vibration levels resulting from construction of the potential aerial conveyance route would be minimal.

Because no noise-sensitive uses would be located directly adjacent to or along the potential aerial conveyor route, the operational noise levels associated with this system along the approximately 3.1-mile-long route would not adversely affect any sensitive receptors. Noise levels generated from aerial conveyor systems are relatively low when compared to other soil transportation options such as the use of trucks. The noise levels generated along the aerial conveyor can reach up to approximately 62 dBA at the pylons, 60 dBA in-between pylons, 84 dBA at the outside of the bucket loading station, 85 dBA at the main drive house, and 87 dBA at the outside of the bucket off-loading station. Based on the location of the nearest offsite sensitive receptors identified along this conveyor route, these sensitive receptors would only be exposed to noise levels generated at the pylons and in-between the pylons. For the purpose of this analysis, the higher noise level of 62 dBA at the pylon is used to estimate the noise levels at the nearest offsite

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receptors.[16] Given the nearest offsite receptors are located 413 feet away from the potential aerial conveyor route, the estimated noise level at these receptors would be approximately 20 dBA. This noise level would not exceed the County's applicable daytime, evening, and nighttime construction activity noise threshold criteria of 55, 50, and 45 dBA $L_{eq}(h)$, respectively. Additionally, as the nearest offsite sensitive receptor located in the city of Simi Valley is located even further away (i.e., approximately 1,330 to the northwest), the result noise levels at these receptors from operation of the overland conveyor would not be audible and thus would not result in a noise disturbance. Section 5-16.02 of the City of Simi Valley Municipal Code specifically regulates noise generated by engines, motors, and mechanical devices in and near residential districts by prohibiting their operation in between the hours of 11:00 P.M. to 7:00 A.M. on Friday or Saturday, and between the hours of 10:00 P.M. to 7:00 A.M. on Sunday through Thursday unless these noise sources are enclosed to ensure that noise would not be audible within 10 feet of any residence. As the potential overland conveyor would not operate between these prohibited hours, the applicable noise regulations of the City of Simi Valley would not be violated. Overall, when compared to the cleanup project at the SSFL site, which would result in significant noise increases at the residential uses located along Woolsey Canyon Road, the use of this potential aerial conveyor system route would not affect any noise-sensitive uses located in the vicinity of this route.

This potential option would also require construction and operation of Rail Site 2B. Noise associated with construction and operation of Rail Site 2B would be the same as identified under the Environmental Screening Analysis presented for the North American Cutoff Road Overland Conveyor in Section 3.6.4.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, noise from the decommissioning process is anticipated to be similar to or less than the estimate for the construction phase.

3.7 Traffic

The most recent data published by the Caltrans was reviewed to determine the average daily traffic volumes for all roadway segments and intersections affected by the potential options. The estimated daily truck haul trips for each potential option were then added to the existing average daily traffic volumes for all applicable roadway segments and intersections to determine if the potential options would result in congestion along the affected roadway segments and intersections.

3.7.1 Woolsey Canyon Road Truck Route

Traffic generated by both truck hauling and employee vehicle access during SSFL site remediation activities were analyzed within the *Traffic Study for Santa Susana Field Laboratory*

[16] For the purpose of this analysis, it is assumed that the 62 dBA noise level at the aerial conveyor pylon was measured at a reference distance of one meter from the noise source.

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EIR, prepared by KOA Corporation (2017). During the peak period of remediation activities, the project is expected to generate up to 96 round-trip truck trips on a typical day of operations and up to 250 worker trips (a daily total of 740 passenger car equivalent trips, with 155 trips occurring during both the A.M. and P.M. peak hours) [17]. During the peak period of remediation, the total daily trips could increase to 980 and the peak-hour trips could increase to 185.

Significantly affected locations, based on a review of level of service at major intersections and roadway segments, include the following:

- Intersections at the SR 118/Topanga Canyon Boulevard interchange
- The intersection of Valley Circle Boulevard/Woolsey Canyon Road
- The intersection of Valley Circle Boulevard/Roscoe Boulevard
- The intersection of Topanga Canyon Boulevard/Roscoe Boulevard
- The intersection at Topanga Canyon Boulevard/US-101 Northbound Ramps
- Five roadway segments on Valley Circle Boulevard and Roscoe Boulevard

Avoidance of truck trips during peak traffic hours on haul routes would reduce impacts, but impacts of vehicle trips by project workers during peak traffic hours would exceed the thresholds of significance established for this analysis for intersections and road segments, and the impacts after implementation of Mitigation Measure TRANS-1 would be considered significant and unavoidable.

Woolsey Canyon Road would not be decommissioned and therefore no additional traffic impacts from equipment, labor and worker trips are anticipated.

3.7.2 Edison Road Truck Route

For the Edison Road Truck Route, a daily total of up to 96 trucks would be split between Woolsey Canyon Road and the new Edison Road to transport contaminated soils from the SSFL site to disposal sites and to transport clean backfill to the site. Assuming a 50:50 split, impacts along the Woolsey Canyon Road route would be less than those described in Section 3.7.1, with significant impacts to level of service occurring at three instead of six intersections and on two instead of five roadway segments described previously.

Trucks hauling material to and from the site via the Edison Road Truck Route would use Tapo Canyon Road to access SR 118. An increase of 48 trucks per day to this public roadway network would result in congestion on Tapo Canyon Road, south of the SR 118 interchange, which would be considered a significant effect. Potential traffic effects on roadway segments and intersections

[17] The A.M. and P.M. peak hours for each study intersection (i.e., the four highest consecutive 15-minute periods within each of the two-hour peak periods of 7:00 A.M. to 9:00 A.M. and 4:00 P.M. to 6:00 P.M.) vary somewhat (though are generally 7:15 A.M. to 8:15 A.M. and 4:45 P.M. to 5:45 P.M.).

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would be reduced if truck hauling activities were required to be limited to off-peak traffic hours and if some worker traffic also used Edison Road to access the site.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, traffic impacts from the decommissioning process would be similar to or less than those estimated for the construction phase.

3.7.3 Edison Road Overland Conveyor

For the Edison Road Overland Conveyor option, a total of up to 96 trucks would traverse Tapo Canyon Road to access the site and to access SR 118. An increase of 96 trucks per day to this public roadway network would result in congestion on Tapo Canyon Road, south of the SR 118 interchange, which would be considered a significant effect. Potential traffic effects on roadway segments and intersections could be mitigated if truck hauling activities were required to occur outside of peak traffic periods. Signalization of some of the currently unsignalized locations could also mitigate traffic that may occur at the affected intersections.

Under this potential option, soils contaminated with radioactive material (approximately 134,000 CY) would be transported by truck via Woolsey Canyon Road. Clean backfill (approximately 1,366,000 CY) would also be transported to the site via Woolsey Canyon Road. As discussed previously for the Woolsey Canyon Road Truck Route, significant impacts resulting from project-related traffic at affected intersections could be avoided if truck hauling activities were required to occur outside of peak traffic periods.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, traffic impacts from the decommissioning process are expected to be similar to or less than those estimated for the construction phase.

3.7.4 North American Cutoff Road Overland Conveyor

The North American Cutoff Road Overland Conveyor option would result in using a conveyor system to transport soil from the SSFL site directly to an existing rail line. Therefore, this potential option would result in a substantial reduction in project-related truck traffic as approximately 1,685,000 CY of hazardous and non-hazardous soil would be transported by conveyor and train.

Under this potential option, soils contaminated with radioactive material (134,000 CY) would be transported by truck via Woolsey Canyon Road. Clean backfill (1,300,000 CY) would also be transported to the site via Woolsey Canyon Road. As discussed previously for the Woolsey Canyon Road Truck Route, significant impacts resulting from project-related traffic at affected intersections could be avoided if truck hauling activities were required to occur outside of peak traffic periods.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, the traffic impacts anticipated from the

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decommissioning process are expected to be similar to or less than those estimated for the construction phase.

3.7.5 North American Cutoff Road Aerial Conveyor

The North American Cutoff Road Aerial Conveyor option would result in using a conveyor system to transport soil from the SSFL site directly to an existing rail line. Therefore, this potential option would result in a substantial reduction in project-related truck traffic as approximately 1,685,000 CY of hazardous and non-hazardous soil would be transported by conveyor and train.

Under this potential option, soils contaminated with radioactive material (134,000 CY) would be transported by truck via Woolsey Canyon Road. Clean backfill (1,685,000 CY) would also be transported to the site via Woolsey Canyon Road. As discussed previously for the Woolsey Canyon Road Truck Route, significant impacts resulting from project-related traffic at affected intersections could be avoided if truck hauling activities were required to occur outside of peak traffic periods.

The equipment, labor and worker trips required for decommissioning are anticipated to be comparable to the construction phase. Therefore, traffic impacts anticipated from the decommissioning process are expected to be similar to or less than those estimated for the construction phase.

4.0 Comparison of Feasible Transportation Options

This section provides a comparison of the technological and environmental analyses conducted for the potential options evaluated in Section 2.2 and Section 3.0 of this report.

4.1 Feasibility Summary

As discussed in Section 2.2, the potential truck and conveyor routes were evaluated for required land access, technological feasibility, rail logistics (as necessary), permitting constraints, implementation schedule, and cost.

4.1.1 Land Access

Woolsey Canyon Road Truck Route consists exclusively of existing public roads that would not require any improvement for use as a truck route. Therefore, this potential option would not require any acquisition or access to land. Each of the potential options evaluated would require access to private lands (by purchase or easement) with multiple land owners (as presented in **Table 4-1**) in order to implement. As such, development of each potential option would require negotiation of land access agreements with multiple owners.

Given the uncertainty and potential complexity of land control negotiations, this analysis assumes overall feasibility for development would be directly proportional to the number of individual

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access agreements that would be required for each potential option. Therefore, in terms of land access, the most feasible routes to implement (in order of more feasible to less feasible) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route
3. Edison Road Overland Conveyor
4. North American Cutoff Road Overland Conveyor
5. North American Cutoff Road Aerial Conveyor

TABLE 4-1
SUMMARY OF LAND DISTURBANCE AND OWNERSHIP

Route / Option	Total Area of Disturbance	No. of Parcels	No. of Land Owners
Woolsey Canyon Road Truck Route	0	0	0
Edison Road Truck Route	88 acres[a]	14 parcels	> 4 private owners and/or easement holders b
Edison Road Overland Conveyor	4.7 acres	14 parcels	> 4 private owners and/or easement holders [b]
North American Cutoff Road Overland Conveyor	11.9 acres	20 parcels	> 5 private owners [b] 3 public agencies
North American Cutoff Road Aerial Conveyor	14 acres	20 parcels	> 5 private owners [b] 3 public agencies

NOTES:

[a] The amount of disturbance for this potential option is due to grading necessary to reconfigure the roadway and not only the acreage of the roadway.

[b] The exact number of land owners for these potential options is currently unknown because the data obtained for this analysis did not identify the owners of the all parcels along the routes (they were listed as anonymous or unknown).

4.1.2 Technological Feasibility

Because the Woolsey Canyon Road Truck Route consists of existing roadways that would not require any improvement to use as a haul route, this route is considered to be the most technologically feasible. As discussed in detail in Section 2.2, all four potential options are technologically feasible, as technologically infeasible routes were not considered. The routes would require different scales of development. As presented in Table 4-1, development of these potential options would result in disturbance of 4.7 to 88 acres of land. Each potential option would also result in different levels of onsite construction including grading, paving, and construction of new infrastructure. Despite the differences in land disturbance, from a technological feasibility perspective, the four sites are very similar and this is not a distinguishing characteristic.

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4.1.3 Rail Logistics

The Woolsey Canyon Road Truck Route, Edison Road Truck Route, and Edison Road Overland Conveyor Route do not involve transport by rail; therefore, these potential options would not require any negotiations, agreements, permits, or physical improvements related to rail access.

The two North American Cutoff Road Conveyor Route options would require development of a rail transfer station to transfer soil from the conveyor to railcars, and to stage railcars prior to shipment. These potential options would also require construction of a new railroad siding and would require agreements with SCRRA and UPRR for construction of the new facilities and use of the railroad.

With regard to rail logistics, the most feasible routes to implement (in order of more feasible to less feasible) would be:

1. Woolsey Canyon Road Truck Route, Edison Road Truck Route, and Edison Road Overland Conveyor Route
2. North American Cutoff Road Overland Conveyor/North American Cutoff Road Aerial Conveyor

4.1.4 Permitting Constraints

Use of the Woolsey Canyon Road Truck Route would not require construction or new land disturbance and therefore would not require any permits related to construction. The only permitting activity that may be required for use of this route would be potential coordination with the City of Los Angeles and Caltrans for the occasional oversize load.

Development of the Edison Road Truck Route would require fewer permits and approvals than the conveyor options which would involve construction of hazardous waste transfer sites on lands not currently zoned for such uses.

The three conveyor options would require the most permits/approvals. These potential options are ranked as the least feasible due to the uncertainty of local permitting agencies (the City of Simi Valley and/or County of Ventura) to approve the potential Conditional Use Permits and zone changes that would be necessary to develop the truck or rail transfer site. Development of the aerial conveyor is the least feasible with respect to permitting constraints because it would require installation of towers up to 120 feet tall (as discussed in Section 3.5.5 of this report, Ventura County development standards limit the maximum structure height for principal structures to 25 feet). The use of Edison Road as a haul road for contaminated material is not explicitly identified among the permitted uses in the Open space and Rural Agriculture zones in Ventura County. Temporary collection activities associated with hazardous waste collection, treatment and storage facilities are allowed in the Open Space and Rural Agriculture zones in Ventura County with obtainment of a zoning clearance, or other ministerial approved permit.

The Simi Valley Zoning Ordinance also does not explicitly identify haul roads among the permitted uses in the Open Space, Residential, Water Storage Facility, and Business Park zones.

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However, the City may consider the haul road to be an access road, which could be an allowable use within these zones. However, reasonably similar uses that also involve hazardous wastes are allowed in the Open Space and Residential Zones with obtainment of a Conditional Use Permit. Truck Site 1 is located within the Business Park zone which also does not list hazardous waste collection, treatment and storage facilities among the allowable uses. However, reasonably similar uses that also involve hazardous wastes such as motor vehicles and transportation equipment, solid waste disposal facilities and transmission/distribution pipelines and surface facilities are allowed in this zone. Overall, implementation of the Edison Road Truck Route within Open Space, Residential, Water Storage Facility, and Business Park zones may not be a compatible use and further discussion with the City of Simi Valley planning department must take place to determine whether implementation of the Edison Road Truck Route would be allowable.

With regard to permitting, the most feasible routes to implement (in order of more feasible to less feasible) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route
3. Edison Road Overland Conveyor
4. North American Cutoff Road Overland Conveyor
5. North American Cutoff Road Aerial Conveyor

4.1.5 Implementation Schedule

As shown in **Table 4-2**, the implementation schedules, including design, environmental review, land acquisition, permitting and construction of the four potential options are relatively similar and range in duration from 45 to 48 months. It is anticipated that implementation of any of these routes could begin a few months after certification of the PEIR for the SSFL project, which is currently anticipated to occur in late 2017. Implementation of the Woolsey Canyon Road Truck Route could begin as soon as excavation activities at the SSFL site begin, which is currently anticipated to be in January 2018.

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TABLE 4-2
IMPLEMENTATION SCHEDULE SUMMARY

	Development [a]		Operation		Decommissioning	
Technology/Segment	**Start**	**Finish**	**Start**	**Finish**	**Start**	**Finish**
Woolsey Canyon Road Truck Route	NA	NA	February 2018	November 2032	NA	NA
Edison Road Truck Route	December 2017	August 2021	August 2021	November 2032	NA	NA
Edison Road Overland Conveyor	December 2017	November 2021	November 2021	November 2032	November 2032	November 2033
North American Cutoff Road Overland Conveyor	December 2017	November 2021	November 2021	November 2032	November 2032	November 2033
North American Cutoff Road Aerial Conveyor	December 2017	August 2021	August 2021	November 2032	November 2032	November 2033

Notes: NA – Not applicable

[a] Development includes design, environmental review, land acquisition, permitting, and construction.

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Implementation of any of these potential options would begin with detailed design, negotiation of land control, and initiation of the environmental review process. These activities could begin immediately upon certification of the PEIR (this schedule assumes activities would start within 45 days after PEIR approval). Assuming certification of the PEIR in December 2017, construction of any of these potential options would be completed between September and November 2021, as shown in Table 4-2.

The operational schedule of the Woolsey Canyon Road Truck Route would depend on how many trucks can be loaded and leave the site per day. As shown in Table 1-2, it is assumed that the rate at which contaminated soil would be excavated is between 413 and 1,027 CY per day, which equates to 27 to 67 truck trips (round trips), respectively. Additional trucks would transport clean backfill and other necessary equipment to the site using 14 to 29 additional truck trips per day. The total number of daily truck trips (round trips) for this alternative would range between 48 and 96 (which averages to 67 trucks/day over the 15-year project schedule. The operational schedule for all four feasible transportation options would be approximately 15 years. The Woolsey Canyon Road Truck Route would commence operation as soon as February 2018. If one of the potential options is selected, it is anticipated that the selected option could begin operation in late 2021.

Because the selected transportation option would be expected to operate at the same pace as the overall site cleanup for SSFL, any of the options would be expected to result in completion of the cleanup within the same approximate timeframe as the proposed project. However, due to the need to decommission the conveyors, truck site, and rail site, the potential conveyor options would require an additional year of activity to remove infrastructure and conduct restoration.

The Woolsey Canyon Road Truck Route and alternative soil transport routes are ranked in order of the operational completion dates presented in Table 4-2.

1. Woolsey Canyon Road Truck Route/Edison Road Truck Route (November 2032)
2. All three conveyor routes (November 2033)

4.1.6 Cost

Table 4-3 summarizes the capital costs of developing each potential option, including design, environmental review, land acquisition, permitting, construction, and decommissioning. **Table 4-4** summarizes the cost of operating each potential option. The costs include transport of excavated soil from remediation locations at the SSFL site to the conveyance loading points (as applicable to the mode of conveyance) and the costs of transfers (conveyor to truck, conveyor to rail, etc.). For the conveyor routes, in general, operations would be automatic with signal lights, truck loading/unloading bays, and automatic materials transfer. Additional costs were considered and included where additional handling steps would be necessary to accounted for total operating costs.

Table 4-5 presents the total cost of developing and operating each potential option.

TABLE 4-3
CAPITAL CONSTRUCTION COSTS COMPARISON

Technology/Segment	Destination	Total Estimated Capital Costa
Woolsey Canyon Road Truck Route	SR 118 or US-101, direct to landfills	N/A [a]
Edison Road Truck Route	SR 118, direct to landfills	$17 million
Edison Road Overland Conveyor	Truck Site 1	$80 million
North American Cutoff Road Overland Conveyor	Rail Site 2B	$86 million
North American Cutoff Road Aerial Conveyor	Rail Site 2B	$52 million

Notes
[a] This route would use existing public roadways, from the edge of the SSFL site to the regional freeway network. Construction of new roadways or other capital equipment is not necessary.
See Appendix B for more details

TABLE 4-4
OPERATING COSTS COMPARISON

Technology/Segment	Total Operation Cost
Woolsey Canyon Road Truck Route	$447 million
Edison Road Truck Route	$447 million
Edison Road Overland Conveyor	$464 million
North American Cutoff Road Overland Conveyor	$672 million
North American Cutoff Road Aerial Conveyor	$672 million

See Appendix B for more details

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TABLE 4-5
TOTAL COST OF DEVELOPMENT AND OPERATION

Technology/Segment	Development Cost	Operating Cost	Total Cost[a]
Woolsey Canyon Road Truck Route	-	$447 million	$447 million
Edison Road Truck Route	$17 million [a]	$447 million	$464 million
Edison Road Overland Conveyor	$80 million [a]	$464 million	$544 million
North American Cutoff Road Overland Conveyor	$86 million [a]	$672 million	$758 million
North American Cutoff Road Aerial Conveyor	$52 million [a]	$672 million	$724 million

[a] Includes decommissioning
See Appendix B for more details

With regard to total cost of implementation, the most feasible routes to implement (in order of more feasible to less feasible) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route
3. Edison Road Overland Conveyor
4. North American Cutoff Road Aerial Conveyor
5. North American Cutoff Road Overland Conveyor

4.2 Environmental Summary

Section 3.0 of this report presents environmental analysis of each potential option. This section summarizes and compares potential adverse environmental effects and issues involved with development of each potential option. **Table 4-6** through **Table 4-13** present more detailed summaries of the environmental analysis for each potential option.

4.2.1 Air Quality Comparison

The purpose of the feasibility analysis is to compare the impacts from each of the alternative soil transport routes to each other as well as the regulatory thresholds. In order to show a complete comparison of the emissions associated with each potential option, the emissions that occur within each of the regulatory jurisdictions as well as the total emissions are shown. This is because while emissions outside the jurisdictional areas are not compared to thresholds, they make up the majority of transportation emissions and without including those emissions the transportation comparison would not be completely accurate. Additionally, while the emissions within each regulatory jurisdiction are compared to the thresholds, these emissions do not represent the complete emissions that would occur or be included in the significance finding under CEQA. Under CEQA the emissions from onsite activities would also be included in the

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construction and operational emissions as appropriate. However, because the onsite activities would not change regardless of the potential option chosen, the addition of these emissions could overshadow the differences in the transportation emissions from the potential options and therefore are not included in these emissions calculations. Therefore, while emissions in this feasibility analysis may show emissions below the thresholds for various potential options, this is only in respect to the transportation emissions. When these transportation emissions are added to the onsite emissions from remediation activities, the total daily emissions would exceed regulatory thresholds for NOx regardless of the potential option chosen—i.e. none of these potential options would reduce the significant and unavoidable impacts for NOx emission that was identified in the PEIR for the SSFL project.

The Woolsey Canyon Road Truck Route would not require construction or decommissioning, and therefore would not emit air pollutants or GHG during the construction or decommissioning phases. However, all other potential options would require construction and eventual decommissioning, which would result in emissions. As shown in **Table 4-6**, construction of the potential options (Edison Road Truck Route, Edison Roade Overland Canyon, and North American Cutoff Road Overland Conveyor) has the potential to exceed the SCAQMD and VCAPCD regional thresholds for NOx. These potential options would not exceed any of the other regulatory thresholds for NOx, or any of the other criteria pollutants (CO, VOC/ROG, SOx, PM10, PM2.5). The North American Cutoff Road Aerial Conveyor would not exceed any of the regulatory thresholds. Note that the emissions from construction and truck transportation take into account the requirement to use Tier 4 onsite equipment and haul trucks that are year 2014 or newer. Additionally, because the Woolsey Canyon Road Truck Route would be in operation during the construction of any potential options, the operational emissions from the Woolsey Canyon Road Truck Route are included in the construction emissions for each potential option. Because the operational emissions are included, the thresholds for operational activities are used for the comparison. All of the construction scenarios would exceed the GHG emissions threshold without the incorporation of mitigation measure GHG-3. With incorporation of mitigation measure GHG-3 emissions would be reduced to below the thresholds for all scenarios.

In terms of air quality and GHG issues, for construction, the route with the fewest adverse environmental effects would be Woolsey Canyon Road Truck Route, because no construction emissions would be generated, while three of the potential options would result in emissions of NOx that exceed SCAQMD and VCAPCD regulatory thresholds. During construction, the route with the fewest adverse environmental effects with respect to air quality (in order of least adverse to most adverse) are as follows:

1. Woolsey Canyon Road Truck Route
2. North American Cutoff Road Aerial Conveyor
3. North American Cutoff Road Overland Conveyor
4. Edison Road Truck Route
5. Edison Road Overland Conveyor

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TABLE 4-6
AIR QUALITY CONSTRUCTION EMISSIONS COMPARISON TABLE

Route	ROG	NOx	CO	SOx	PM10	PM2.5	CO_2e[1]
	Pounds/Day						MT/Year
Woolsey Canyon Road Truck Route	0	0	0	0	0	0	0
Edison Road Truck Route	5	91	97	2	14	7	13,025
Edison Road Overland Conveyor	6	97	111	2	14	7	12,287
North American Cutoff Road Overland Conveyor	5	85	84	2	15	8	12,239
North American Cutoff Road Aerial Conveyor I	5	71	64	2	20	11	12,080
Regional Emissions and Thresholds by Jurisdiction							
VCAPCD							
Woolsey Canyon Road Truck Route	0	0	0	0	0	0	0
Edison Road Truck Route	2	**41**	76	<1	14	7	*N/A*
Edison Road Overland Conveyor	3	**46**	88	<1	13	7	*N/A*
North American Cutoff Road Overland Conveyor	2	**36**	65	<1	15	8	*N/A*
North American Cutoff Road Aerial Conveyor	2	22	44	<1	20	11	*N/A*
VCAPCD Thresholds	*25*	*25*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
SCAQMD							
Woolsey Canyon Road Truck Route	0	0	0	0	0	0	0
Edison Road Truck Route	4	**64**	87	1	14	7	13,025
Edison Road Overland Conveyor	4	**70**	100	1	13	7	12,287
North American Cutoff Road Overland Conveyor	3	**58**	74	1	15	8	12,239
North American Cutoff Road Aerial Conveyor	3	45	54	1	20	11	12,080
SCAQMD Thresholds	*55*	*55*	*550*	*150*	*100*	*55*	*10,000*
City of Simi Valley							
	Tons/Year						*MT/Year*
Woolsey Canyon Road Truck Route	0	0	0	0	0	0	0
Edison Road Truck Route	<1	5	10	<1	2	1	*N/A*
Edison Road Overland Conveyor	1	13	14	<1	2	1	*N/A*
North American Cutoff Road Overland Conveyor	1	11	11	<1	2	1	*N/A*
North American Cutoff Road Aerial Conveyor	1	9	8	<1	3	1	*N/A*
City of Simi Valley Thresholds	*13.7*	*13.7*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

Notes:
< denotes emissions that are less than 1 but are greater than 0.
Bolded values indicate exceedance of significance threshold.
City of Simi Valley thresholds are not included in this table. None of the potential transportation options would exceed City thresholds during construction or operation.
* Conveyor operation only.
[1] CO_2e represents emissions without incorporation of mitigation measure GHG-3 for comparative purposes.

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Table 4-7 compares the operational emissions for all potential options. During operations, the North American Cutoff Road Overland Conveyor and North American Cutoff Road Aerial Conveyor options would exceed SCAQMD pollutant thresholds for NOx. This is due to the emissions factors for the trains and the amount of time the trains would operate within the SCAQMD's jurisdiction. Trucks would spend considerably less time within the SCAQMD's jurisdiction and therefore less NOx would be emitted within the jurisdictional boundaries. NOx emissions thresholds would not be exceeded within the VCAPCD or City of Simi Valley. None of the other criteria pollutants exceed the regulatory thresholds of the VCAPCD, SCAQMD, or City of Simi Valley for any potential option. The Woolsey Canyon Road Truck Route, Edison Road Truck Route and Edison Road Overland Conveyor emissions are relatively similar for all criteria pollutants. This is because they would be traveling to the same disposal sites and the truck routes would only differ by a couple miles. Due to the slight change in mileage, the Woolsey Canyon Road Truck Route would exceed the criteria pollutant emissions of the other two trucking options. Operation of the North American Cutoff Road conveyor options would result in more air pollutants. While the conveyor systems remove some of the emissions from the trucks, the operation of the trains is less efficient from a pollutant standpoint, as is detailed in environmental analysis above. Additionally, even though the disposal trucks would be removed from the equation, additional truck trips would be required to import clean backfill.

The Edison Road Overland Conveyor and North American Cutoff Road Overland Conveyor options are the only potential options with the potential to exceed the VCAPCD GHG threshold. This is due to the comparatively large quantity of electricity required to power the overland conveyor. The Woolsey Canyon Road Truck Route would generate the second largest quantity of GHG emissions, but is not expected to exceed applicable GHG emissions thresholds. The North American Cutoff Road Aerial Conveyor would generate the lowest quantity of GHG emissions. None of the potential options would exceed the SCAQMD GHG threshold.

During the operational phase, the route with the fewest adverse environmental effects with respect to air quality (in order of least adverse to most adverse) are as follows:

1. Edison Road Overland Conveyor/Edison Road Truck Route (same haul distance and same operational emissions)
2. Woolsey Canyon Road Truck Route
3. North American Cutoff Road Overland Conveyor
4. North American Cutoff Road Aerial Conveyor

During the operational phase, the route with the fewest adverse environmental effects with respect to GHG is determined based on the emissions without the inclusion of mitigation measure GHG-3 since implementation of this measure would reduce emissions of all options to the same level. While criteria pollutants are based only on exhaust emissions, the GHG emissions take into account the emissions from electricity consumption from the conveyor options. While these emissions are not substantial in consideration of overall emissions, they differ enough so that there is a distinct difference within the similar options (i.e., between the Edison Road Truck Route and Edison Road Overland Conveyor).

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In order from least to most emissions the ranking of potential options would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route
3. Edison Road Overland Conveyor
4. North American Cutoff Road Overland Conveyor
5. North American Cutoff Road Aerial Conveyor

TABLE 4-7
AIR QUALITY OPERATIONAL EMISSIONS COMPARISON TABLE

Route	ROG	NOx	CO	SOx	PM10	PM2.5	CO_2e[1]
	Pounds/Day						MT/Year
Woolsey Canyon Road Truck Route	3	50	19	2	<1	<1	11,128
Edison Road Truck Route	2	37	14	1	<1	<1	11,184
Edison Road Overland Conveyor	2	37	14	1	<1	<1	12,701
North American Cutoff Road Overland Conveyor	176	2,816	675	46	112	108	19,762
North American Cutoff Road Aerial Conveyor	177	2,828	691	47	112	108	21,886
Regional Emissions and Thresholds by Jurisdiction							
VCAPCD							
Woolsey Canyon Road Truck Route	<1	1	1	<1	<1	<1	*N/A*
Edison Road Truck Route	<1	2	2	<1	<1	<1	*N/A*
Edison Road Overland Conveyor	<1	2	2	<1	<1	<1	*N/A*
North American Cutoff Road Overland Conveyor	<1	5	2	<1	<1	<1	*N/A*
North American Cutoff Road Aerial Conveyor	<1	5	2	<1	<1	<1	*N/A*
VCAPCD Thresholds	*25*	*25*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*
SCAQMD							
Woolsey Canyon Road Truck Route	1	24	9	1	<1	<1	11,128
Edison Road Truck Route	1	11	3	<1	<1	<1	11,184
Edison Road Overland Conveyor	1	11	3	<1	<1	<1	12,701
North American Cutoff Road Overland Conveyor	29	**462**	119	8	18	18	19,762
North American Cutoff Road Aerial Conveyor	29	**462**	119	8	18	18	21,886
SCAQMD Thresholds	*55*	*55*	*550*	*150*	*100*	*55*	*10,000*

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Route	ROG	NOx	CO	SOx	PM10	PM2.5	CO_2e[1]
City of Simi Valley							
	Tons/Year						*MT/Year*
Woolsey Canyon Road Truck Route	<1	<1	<1	<1	<1	<1	*N/A*
Edison Road Truck Route	<1	<1	<1	<1	<1	<1	*N/A*
Edison Road Overland Conveyor	<1	<1	<1	<1	<1	<1	*N/A*
North American Cutoff Road Overland Conveyor	<1	1	<1	<1	<1	<1	*N/A*
North American Cutoff Road Aerial Conveyor	<1	1	<1	<1	<1	<1	*N/A*
City of Simi Valley Thresholds	*13.7*	*13.7*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

Notes: **Bolded** values indicate exceedance of significance threshold.
< denotes emissions that are less than 1 but are greater than 0.
1 CO_2e represents emissions without incorporation of mitigation measure GHG-3 for comparative purposes.

4.2.2 Biological Resources Comparison

In general, adverse effects on biological resources would primarily occur during construction and would be the direct result of ground disturbance. Accordingly, use of the Woolsey Canyon Road Truck Route would result in no adverse effects biological resources because the route would not require construction. All other analyzed potential options are anticipated to have significant adverse effects on biological resources and would likely require permits from USFWS, CDFW, USACE, and RWQCB.

As shown in **Table 4-8**, all analyzed transportation options, with the exception of the Woolsey Canyon Road Truck Route, have the potential to adversely affect special-status species, vegetation communities and habitat, nesting habitat, the Arroyo Simi and other ephemeral drainages, oak trees, and vernal pools. Within the scope of this analysis, the Edison Road and North American Cutoff Road options appear to affect the same types of biological resources; however, because the overland conveyor option would deviate from the North American Cutoff Road ROW more than the aerial conveyor route would, the overland route would result in more disturbance to previously undisturbed land than the aerial route would. However, the Edison Road Truck Route would disturb the largest quantity of land and would therefore have a greater potential to disturb biological resources. The overland conveyor options would disturb substantially less land when compared to the Edison Road Truck Route and North American Cutoff Road Aerial Conveyor because much of the overland conveyor system would be installed above ground and would not require substantial grading or land disturbance. In addition, unlike the Edison Road truck and conveyor options, the North American Cutoff Road conveyor options have the potential to adversely affect an identified wildlife movement corridor, the Santa Monica Mountains-Sierra Madre Landscape Linkage.

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TABLE 4-8
BIOLOGICAL RESOURCES COMPARISON TABLE

Route	Special-status Plants[1]	Special-Status Wildlife[1]	Sensitive Habitat/Communities	Wildlife Movement Corridor	Nesting Habitat	**Drainage Crossings**	Protected Trees	Vernal Pools
Woolsey Canyon Road Truck Route	None	None	None	None	None	None	None	None
Edison Road Truck Route*	• Slender mariposa lily (*Calochortus clavatus* var. *gracilis*) • Santa Susana tarplant (*Deinandra minthornii*) • Chaparral nolina (*Nolina cismontane*)	• California gnatcatcher (*Polioptila californica californica*) • Blacktailed jackrabbit (*Lepus californicus*) • Los Angeles little pocket mouse (*Perognathus longimembris brevinasus*) • Vernal pool fairy shrimp (*Branchinecta lynchi*) • Riverside fairy shrimp (*Streptocephalus woottoni*)	• Venturan Coastal Sage Scrub • Sandstone Outcrops	None	Present	Arroyo Simi and one unnamed drainage	Oak trees (*Quercus berberidifolia*)	Potentially Present
Edison Road Overland Conveyor	Same species as identified for Edison Road Truck Route	Same species as identified for Edison Road Truck Route	• Venturan Coastal Sage Scrub • Sandstone Outcrops	None	Present	Arroyo Simi and one unnamed ephemeral drainage	Oak trees (*Quercus berberidifolia*)	Potentially Present
North American Cutoff Road Overland Conveyor	Same species as identified for Edison Road Truck Route	Same species as identified for Edison Road Truck Route	• Venturan Coastal Sage Scrub • Sandstone Outcrops • Riparian Forest (potentially within footprint)	Present	Present	Arroyo Simi and two unnamed ephemeral drainages	Oak trees (*Quercus berberidifolia*)	Potentially Present
North American Cutoff Road Aerial Conveyor	Same species as identified for Edison Road Truck Route	Same species as identified for Edison Road Truck Route	• Venturan Coastal Sage Scrub • Sandstone Outcrops • Riparian Forest (potentially within footprint)	Present	Present	Arroyo Simi and two unnamed ephemeral drainages	Oak trees (*Quercus berberidifolia*)	Potentially Present

[1] Special-status plant and wildlife species included in this table do not represent a complete list of species that could be impacted by the transportation routes. Additional biological field surveys are recommended to verify habitat suitability for special-status species and appropriate focused species surveys.

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With respect to biological resources, the routes with the fewest adverse environmental effects (in order of least adverse to most adverse) would be:

1. Woolsey Canyon Road Truck Route
2. North American Cutoff Road Overland Conveyor
3. North American Cutoff Road Aerial Conveyor
4. Edison Road Overland Conveyor
5. Edison Road Truck Route

4.2.3 Cultural Resources Comparison

Disturbance of cultural resources would primarily occur during construction. Accordingly, the Woolsey Canyon Road Truck Route is expected to have no adverse effects on cultural resources because the route would not require construction.

The Edison Road and North American Cutoff Road options have the potential to disturb previously recorded archeological resources that exist within the approximate route delineation for each potential option. In addition, previously unearthed resources may be discovered during construction of the routes. On average, the archeological sensitivity of the Edison Road and North American Cutoff Road transportation routes is considered moderately sensitive for each analyzed option. Similar types of resources have been located within the Edison Road and North American Cutoff Road routes, including prehistoric lithic scatters, lithic tools, projectile point fragments, fire-cracked rock, fired-cracked manos, and a hammerstone. Rail Site 2B contains a known historical resource, the Corriganville Movie Ranch, which is eligible for listing in the National Register and California Register. The Edison Road and North American Cutoff Road transportation options would traverse geological units with low to high paleontological sensitivity. The Edison Road Truck Route would disturb the largest quantity of land and would therefore have a greater potential to disturb previously unearthed cultural and paleontological resources. The overland conveyor options would disturb substantially less land when compared to the Edison Road Truck Route and North American Cutoff Road Aerial Conveyor because much of the overland conveyor system would be installed above ground and would not require excavation and therefore would be less likely to unearth previously undiscovered cultural and paleontological resources. **Table 4-9** compares the cultural resources associated with each potential option analyzed.

With respect to cultural resources, the routes with the fewest adverse environmental effects (in order of least adverse to most adverse) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Overland Conveyor
3. North American Cutoff Road Overland Conveyor
4. North American Cutoff Road Aerial Conveyor
5. Edison Road Truck Route

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TABLE 4-9
CULTURAL RESOURCES COMPARISON TABLE

Route Option	Recorded Archeological Resources	Archeological Sensitivity	Paleontological Sensitivity
Woolsey Canyon Road Truck Route	None	None	None
Edison Road Truck Route	Two archaeological sites (CA-VEN-734 and -1420) and five prehistoric isolated artifacts (P-56-100285, -100295, -100318, -100319, and -100320). Resources include prehistoric lithic scatters with flakes, lithic tools, fire-cracked rock, fired-cracked manos, and a hammerstone.	Contains areas of high sensitivity Moderately sensitive on average	Traverses geological units with low to high paleontological sensitivity
Edison Road Overland Conveyor	One archaeological site (CA-VEN-734) Resources include prehistoric lithic scatters with flakes, lithic tools, fire-cracked rock, fired-cracked manos, and a hammerstone.	Contains areas of high sensitivity Moderately sensitive on average	Traverses geological units with low to high paleontological sensitivity
North American Cutoff Road Overland Conveyor	One archaeological site (CA-VEN-655) consisting of a lithic scatter with fire-affected rock, a projectile point fragment, and a mano fragment. Rail Site 2B contains site P-56-152383, the Corriganville Movie Ranch, which has been found eligible for listing in the National Register and California Register.	Contains areas of high sensitivity Moderately sensitive on average	Traverses geological units with low to high paleontological sensitivity
North American Cutoff Road Aerial Conveyor	Three archaeological sites, CA-VEN-655, -729 and -896, consisting of lithic scatters and a historic-period segment of a wagon road. Rail Site 2B contains site P-56-152383, the Corriganville Movie Ranch, which is eligible for listing in the National Register and California Register.	Contains areas of high sensitivity Moderately sensitive on average	Traverses geological units with low to high paleontological sensitivity

4.2.4 Energy Consumption Comparison

The Woolsey Canyon Road Truck Route would not require construction, and therefore would not consume energy for construction or decommissioning. The Edison Road and North American Cutoff Road routes would require construction and decommissioning. Construction of Edison Road Truck Route and associated Truck Site 1 would consume the most fuel at a total of 478,287gallons of diesel and 17,962 gallons of gasoline. Construction of the Edison Road Overland Conveyor and Truck Site 1 would consume the second largest quantity of fuel at a total of 175,323 gallons of diesel and 10,291 gallons of gasoline, which is approximately 74 percent less fuel than consumed for construction of the Edison Road Truck Route. The North American Cutoff Road Overland and Aerial Conveyor options would consume significantly less fuel during construction as shown in **Table 4-10**. Construction of the North American Cutoff Road Overland Conveyor would consume approximately 80 percent less fuel than construction of the Edison Road Truck Route and 83 percent less fuel than construction of the North American Cutoff Road Aerial Conveyor option.

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During operations, the North American Cutoff Road Overland Conveyor and the North American Cutoff Road Aerial Conveyor options would consume the most fuel at a maximum of 3,214,850 gallons of diesel per year due to freight train hauling. The Edison Road Truck Route and Edison Road Overland Conveyor options would consume the second largest quantity of the fuel at a maximum of 1,414,329 gallons of diesel per year. The Woolsey Canyon Road Truck Route option would consume the lowest quantity of fuel at approximately, 1,404,364 gallons of diesel per year. The Woolsey Canyon Road and Edison Road Truck routes would not use electricity during operation. The Edison Road Overland Conveyor and North American Cutoff Road Overland Conveyor options would consume the most electricity during operations at 440,160 kWh/month each. The North American Cutoff Road Aerial Conveyor would require significantly less electricity to operate at 58,968 kWh/month.

TABLE 4-10
ENERGY CONSUMPTION COMPARISON TABLE

	Construction		Operations		
Route Option	**Diesel (gallons)**	**Gasoline (gallons)**	**Diesel (gallons)**	**Gasoline (gallons)**	**Electricity (kWh/Month)**
Woolsey Canyon Road Truck Route	0	0	1,404,364	0	0
Edison Road Truck Route	478,287	17,962	1,414,329	0	0
Edison Road Overland Conveyor & Truck Site 1	175,323	10,291	1,414,329	0	440,160
North American Cutoff Road Overland Conveyor & Rail Site 2B	96,545	8,307	3,118,305	0	440,160
North American Cutoff Road Aerial Conveyor & Rail Site 2B	82,573	10,241	3,118,305	0	58,968

With respect to energy consumption, the routes with the lowest consumption of energy (in order of least consumption to most consumption) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Overland Conveyor
3. Edison Road Truck Route
4. North American Cutoff Road Aerial Conveyor
5. North American Cutoff Road Overland Conveyor

4.2.5 Land Use Comparison

The Woolsey Canyon Road Truck Route is an existing roadway system and would not require new construction or decommissioning. The use of Woolsey Canyon Road as a haul route would not conflict with General Plan land use designations or zoning. All other potential options would

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potentially conflict with applicable General Plan land use designations and zoning and would likely require a zone change to implement. **Table 4-11** compares the land use compatibility for each potential option.

TABLE 4-11
LAND USE COMPATIBILITY COMPARISON TABLE

Route Option	Jurisdiction	Land Use Designation	Zoning	Compatibility
Woolsey Canyon Road Truck Route	Ventura County Los Angeles County	Numerous land use designations and zones including: Residential, Commercial, Industrial, Manufacturing, Open Space, Public Facilities, and Transportation Corridor		**Compatible:** No changes to the current land use or zoning would be needed.
Edison Road Truck Route	Ventura County	• Open Space	• Open Space (OS-160ac) • Rural Agriculture (RA-5ac)	**Potentially Incompatible:** A zone change would be required to construct this route.
	City of Simi Valley	• Open Space • Medium Density Residential • Business Park	• Open Space • Water Storage Facility • Residential (Medium Density) • BP - Business Park	
Edison Road Overland Conveyor	Ventura County	• Open Space	• Open Space (OS-160ac; OS-160ac/MRP)	**Potentially Incompatible:** A zone change would be required to construct this route.
	City of Simi Valley	• Open Space • Business Park	• Open Space • BP - Business Park	
North American Cutoff Road Overland Conveyor	Ventura County	• Open Space (10ac min.) • Existing Community (Santa Susana)	• Agricultural Exclusive (AE-40ac) • Open Space (OS-160ac; OS-40ac; OS-10ac; OS-20ac) • Residential Estate (RE-10,000 sf	**Potentially Incompatible:** A zone change would be required to construct this route.
	City of Simi Valley	• Community Park • Commercial Recreation • Industrial	• Open Space • Commercial Recreation • Light Industrial	
North American Cutoff Road Aerial Conveyor	Ventura County	• Open Space (10ac min.) • Existing Community (Santa Susana)	• Agricultural Exclusive (AE-40ac) • Open Space (OS-160ac; OS-40ac; OS-10ac; OS-20ac) • Residential Estate (RE-10,000 sf	**Potentially Incompatible:** A zone change would be required to construct this route.
	City of Simi Valley	• Community Park • Commercial Recreation • Industrial	• Open Space • Commercial Recreation • Light Industrial	

With respect to land use, the routes with the fewest land use constraints (in order of fewest constraints to most constraints) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route

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3. Edison Road Overland Conveyor
4. North American Cutoff Road Overland Conveyor
5. North American Cutoff Road Aerial Conveyor

4.2.6 Noise Comparison

The Woolsey Canyon Road Truck Route would not require construction and therefore would not generate construction noise or noise associated with decommissioning. However, all other feasible transportation options would require construction and have sensitive receptors (residences) within 1,000 feet of construction activities. Sensitive receptors are located as close as 115 feet south of the Edison Road Truck Route and Truck Site 1 and 195 feet south of Rail Site 2B. None of the feasible transportation options would involve construction activities that take place outside the hours of 7:00 A.M. and 7:00 P.M. and would therefore not conflict with the construction noise regulations of the County of Ventura or City of Simi Valley. While vibration would be generated during the construction and decommissioning phases, none of the feasible transportation options are anticipated to significantly affect sensitive receptors with construction/decommissioning vibration.

During operations, all potential options would increase exterior noise levels. The Woolsey Canyon Road Truck Route is anticipated to generate a readily perceptible increase in noise between Valley Circle Boulevard and Knapp Ranch Road, which is defined as in increase of 5 dBA over existing ambient conditions. None of the other feasible transportation options are anticipated to generate a readily perceptible increase in noise. However, an increase in noise in general would occur for all feasible transportation options during the operational phase. Noise generated from the conveyor systems would be minimal and incapable of creating a nuisance to sensitive receptors. The primary source of noise for the Edison Road truck and conveyor options would result from truck trips near/along Guardian Street and Truck Site 1, respectively. The primary source of noise for the North American Cutoff Road Conveyor options would result from an additional one to two freight trains per week arriving at and departing Rail Site 2B. **Table 4-12** compares the noise effects of each potential option.

With respect to noise, the routes with the fewest adverse environmental effects (in order of least adverse to most adverse) would be:

1. North American Cutoff Road Aerial Conveyor
2. North American Cutoff Road Overland Conveyor/Edison Road Overland Conveyor
3. Edison Road Truck Route
4. Woolsey Canyon Road Truck Route

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TABLE 4-12
NOISE COMPARISON TABLE

	Construction			Operations			
Route	**Construction Noise Generated Outside the Hours of 7:00 A.M. and 7:00 P.M.**	**Maximum Vibration Decibel (VdB) at 100 feet**	**Sensitive Receptors within 1,000 feet**	**Future (2032) Without Traffic Volumes (dBA CNEL)[a, b]**	**Future (2032) With Project Traffic Volumes (dBA CNEL)[a, b]**	**Increase[c]**	**Conveyor Noise Level at nearest Sensitive Receptor (dBA)**
Woolsey Canyon Road Truck Route	No	0	**Yes**: Residences along Woolsey Canyon Road	52.2	57.4	5.2	Not Applicable
Edison Road Truck Route	No	69	**Yes:** Residence 115 feet south of route, and residences along Tapo Canyon Boulevard.	67.3	68.0	0.7	Not Applicable
Edison Road Overland Conveyor	No	69	**Yes:** Residence 115 feet south of Truck Site 1, and residences along Tapo Canyon Boulevard.	67.3	68.0	0.7	33
North American Cutoff Road Overland Conveyor	No	69	**Yes:** 195 feet to the south of Rail Site 2B	Anticipated increase in noise due to increased daily freight train trips and/or truck trips from Rail Site 2B			43
North American Cutoff Road Aerial Conveyor	No	69	**Yes:** 195 feet to the south of Rail Site 2B	Anticipated increase in noise due to increased daily freight train trips and/or truck trips from Rail Site 2B			20

[a] Values represent noise levels at 100 feet from the centerline of the roadway.
[b] Values shown only for the roadway segments most adversely effected traffic noise generation.
[c] The operations threshold is a 5 dBA increase in exterior noise (see Section 3.6).

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4.2.7 Traffic Comparison

During operations, the Woolsey Canyon Road Truck Route and Edison Road truck and conveyor options would generate a maximum of 192 one-way trips to haul material from the SSFL site. However, the Woolsey Canyon Truck Route is anticipated to significantly affect more roadway segments and intersections than the Edison Road truck and conveyor options (see **Table 4-13**). Potential traffic effects on roadway segments and intersections could be mitigated if truck hauling activities were required to occur outside of peak traffic periods. Signalization of some of the currently unsignalized locations could also mitigate traffic that may occur at the affected intersections. The North American Cutoff Road conveyor options would not generate truck haul trips during operations. Thus, the North American Cutoff Road conveyor options would not generate traffic during operations.

TABLE 4-13
TRAFFIC COMPARISON TABLE

Route	Total Daily Truck Trips (one way)	Affected Roadways and Intersections
Woolsey Canyon Road Truck Route	192	• Intersections at the SR 118/Topanga Canyon Boulevard interchange • The intersection at Topanga Canyon Boulevard/US-101 Northbound Ramps • The intersection of Valley Circle Boulevard/Roscoe Boulevard • The intersection of Topanga Canyon Boulevard /Roscoe Boulevard • The intersection of Valley Circle Boulevard/Woolsey Canyon Road • Five roadway segments on Valley Circle Boulevard and Roscoe Boulevard
Edison Road Truck Route	96	All the intersections listed in the above row would be impacted but to a lesser degree
	96	Tapo Canyon Road, south of the SR 118 interchange
Edison Road Overland Conveyor	192	Tapo Canyon Road, south of the SR 118 interchange
North American Cutoff Road Overland Conveyor	0	None
North American Cutoff Road Aerial Conveyor	0	None

With respect to traffic, the routes with the fewest adverse environmental effects (in order of least adverse to most adverse) would be:

1. North American Cutoff Road Overland Conveyor/North American Cutoff Road Aerial Conveyor
2. Edison Road Overland Conveyor
3. Edison Road Truck Route

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4. Woolsey Canyon Road Truck Route

5.0 Summary

Table 5-1 presents a comparison of the feasibility of each potential option, based on each potential option's ranking in each feasibility category evaluated. The potential options are ranked from 1 to 5 with 1 being the most feasible and 5 being the least feasible. It should be noted that the rankings below are based on how each potential option compared to the other potential options for each criterion evaluated. No weighting was assigned to individual categories or routes; as such, this analysis assumes all criteria are weighted equally.

TABLE 5-1
COMPARISON OF FEASIBILITY CRITERIA

Criteria	Woolsey Canyon Road Truck Route	Edison Truck Road	Edison Overland Conveyor	North American Cutoff Road Overland Conveyor	North American Cutoff Road Aerial Conveyor
Land Access	1	2	3	4	4
Technological Feasibility	1	2	2	2	2
Rail Logistics	1	1	1	2	2
Permitting Constraints	1	2	3	4	5
Implementation Schedule	1	1	2	2	2
Cost	1	1	2	4	4
Total	**6**	**10**	**13**	**18**	**20**

As shown in Table 5-1, in terms of feasibility, the most feasible routes to implement (in order of more feasible to less feasible) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Truck Route
3. Edison Road Overland Conveyor
4. North American Cutoff Road Overland Conveyor
5. North American Cutoff Road Aerial Conveyor

It should be noted that this ranking is unaffected by cost.

Table 5-2 presents a comparison of potential adverse environmental effects. The potential options are ranked from 1 to 5 with 1 being the least adverse to environmental resources and 5 being the most adverse.

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TABLE 5-2
COMPARISON OF POTENTIAL ADVERSE ENVIRONMENTAL EFFECTS

Environmental Issue	Woolsey Canyon Road Truck Route	Edison Truck Road	Edison Overland Conveyor	North American Cutoff Road Overland Conveyor	North American Cutoff Road Aerial Conveyor
Air Quality (construction)	1	4	5	3	2
Air Quality (operation)	2	1	1	3	4
Biological Resources	1	5	4	2	3
Cultural Resources	1	5	2	3	4
Energy Consumption	1	3	2	5	4
Land Use	1	2	3	4	5
Noise	4	3	2	2	1
Traffic	4	3	2	1	1
Total	**15**	**26**	**21**	**23**	**24**

As shown in Table 5-2, in terms of potential effects and issues related to environmental resources, the routes with the fewest adverse environmental effects (in order of least adverse to most adverse) would be:

1. Woolsey Canyon Road Truck Route
2. Edison Road Overland Conveyor
3. North American Cutoff Road Overland Conveyor
4. North American Cutoff Road Aerial Conveyor
5. Edison Road Truck Route

6.0 Preparers

This report was prepared by ESA and four subconsultants, KOA Corporation, Rail Pros, Agudio/Leitner-Poma, and FLSmidth & Co.

ESA prepared the background, introduction, environmental analysis, and comparison analyses.

KOA Corporation provided the engineering and cost analysis for developing Edison Road Truck Route.

FLSmidth &Co. provided the engineering and cost analysis for developing the overland conveyor options.

Agudio/Leitner-Poma provided the engineering and cost analysis for developing the aerial conveyor options.

RailPros Inc. provided the engineering and cost analysis for developing the rail transfer sites.

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SANTA SUSANA FIELD LABORATORY PROJECT

Transportation Feasibility Analysis

Volume 2 Appendices

Prepared for
Department of Toxic Substances Control

May 2017

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Santa Susana Field Laboratory Project

Transportation Feasibility Analysis

Volume 2 Appendices

Prepared for
Department of Toxic Substances Control

May 2017

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APPENDIX A

Real Estate Data

Price Per Acre Calculations

MLS #	APN	Address	Acres	Asking Price	Price per Acre	Zoning
215006381	6450020020	5750 Rainey Road	1.49	$ 249,000	$167,114	RE-10,000 sqft
214030890		Santa Susana Pass (3 parcels)	0.41	$ 69,000	$168,293	OS-10 Acre or OS-160
SR15097535	6490340070	801 Box Canyon Road	2.7	$ 249,000	$92,222	RE-1 Acre
SR15123149		50 Santa Susana Pass Road	0.52	$ 39,000	$75,000	OS-10 Acre or OS-160
				Total	**$502,629**	
			Average Price Per Acre		**$125,657.25**	

5750 Rainey Road, Simi Valley, CA 93063, US

$249,000

Map Property | Share Listing | Ask Question | Schedule Showing | Request More Photos

Summary

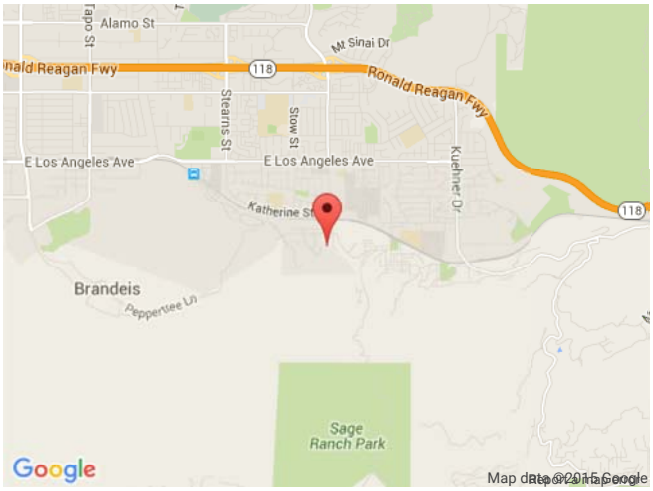
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Three Quarter Baths: 0
Half Baths: 0
Quarter Baths: 0
Style: Lots and Land

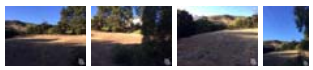
Agent Contact

Debbie Nicoll
Ask Question
Schedule Showing
Click for Phone Number
Click to Email

Moving Quotes

Type of Move
- Select Move Type -
Move date
Nov 11 2015
Moving From Zip
Moving To Zip
Size of Move
- Select a Weight -
Get a Moving Quote





Resources

- View Area Foreclosures
- Search More Area Listings!

Broker Contact

Troop Real Estate
1308 Madera Rd. Ste 2B
Simi Valley, CA, 93065
US
Brian Troop
Website

Remarks

Seller says bring all offers and Seller with carry the loan with 50% or more of a down payment. Here's an opportunity to build your own estate home with plenty of surrounding land, set back at the end of a cul de sac with well placed oak trees on the lot. Almost 1 1/2 acres, surrounded by custom homes and newer subdivisions. Per the County of Ventura the property zoning does allows for 4.5 horses and 22 goats and 650 sq. ft. of open parking to include utility vehicles. All utilities including water, sewer, electricity and gas are located in the street to the property, Seller has soils report, geological report and survey. Property is being sold as-is and seller makes no warranties. Buyer are to perform their own inspections and investigations.

Details

MLS#: 215006381
Price: $249,000

Style: Lots and Land
Baths Full: 0
Three Quarter Baths: 0
Baths Half: 0
Quarter Baths: 0

County: Ventura
Subdivision: Not Applicable-SVE
Tax Fee: 0.00

Information is believed to be accurate but should not be relied upon without verification.
Data Provided by Conejo Simi Moorpark Association of REALTORS
Last updated: 2015-10-25T13:37:57.000-07:00.
Privacy Policy

0 Santa Susana Pass, Simi Valley, CA 93063, US

$69,000

Map Property | Share Listing | Ask Question | Schedule Showing | Request More Photos

Summary

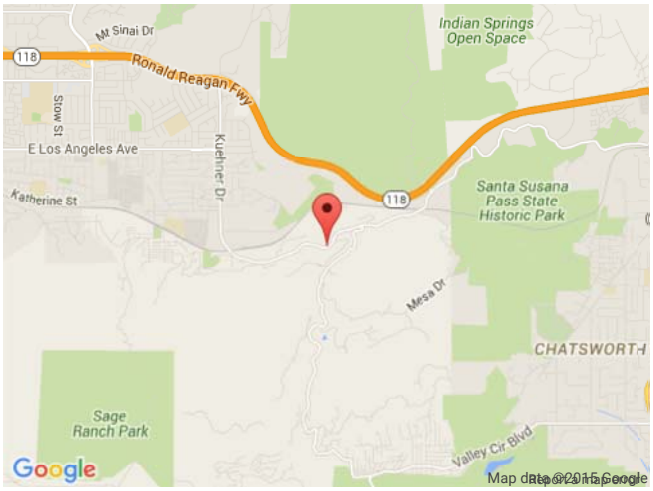
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Three Quarter Baths: 0
Half Baths: 0
Quarter Baths: 0
Style: Lots and Land

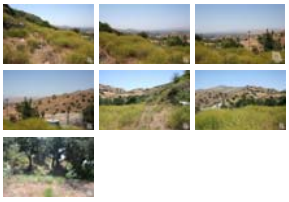
Agent Contact

Laurie Taylor
Ask Question
Schedule Showing
Click for Phone Number
Click to Email

Moving Quotes

Type of Move
- Select Move Type -
Move date
Nov 11 2015
Moving From Zip
Moving To Zip
Size of Move
- Select a Weight -
Get a Moving Quote





Take Virtual Tour

Resources

- View Area Foreclosures
- Search More Area Listings!

Broker Contact

Troop Real Estate Inc.
3200 E Los Angeles Ave
Simi Valley, CA, 93065
US
Brian Troop
Website

Remarks

*Reduced*Reduced*Reduced*. Don't miss this incredible opportunity! Amazing Views, Spacious Flat Area, Plentiful Privacy, Nestled in Nature, Incredible Potential, Amongst a Handful of Custom Homes, Minutes from the 118 Freeway. Three adjoining parcels totaling 17,775 sq.ft. to be sold together and all included at this price. Yes that is right, 3 parcels in all for $69,000.

Details

MLS#: 214030890
Price: $69,000

Style: Lots and Land
Baths Full: 0
Three Quarter Baths: 0
Baths Half: 0
Quarter Baths: 0

County: Ventura
Subdivision: Not Applicable-SVE
Tax Fee: 0.00

Information is believed to be accurate but should not be relied upon without verification.
Data Provided by Conejo Simi Moorpark Association of REALTORS
Last updated: 2015-08-04T12:21:42.000-07:00.
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Simi Valley, Ventura County, California Land For Sale - 2.7 Acres

PHOTOS



Mountain and canyon view vacant corner 2.7 acre lot - located next to large home at 801 Box Canyon Road.

Email GRAHAM FIRRELL

Click for phone number

Visit website

Property type: **Land**
Parcel Size: **2.7 Acres**
Price: **$249,000**
MLS or other ID: **SR15097535**

Check your free credit score

Agent: **GRAHAM FIRRELL**

Email GRAHAM FIRRELL

Click for phone number

Visit website

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Country:* United States
Comments / Questions
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PROPERTY FEATURES

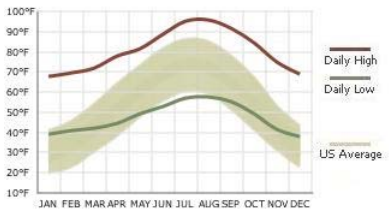
Views
Mountain

Property
City: Simi Valley

Agent/Broker Information
Website URL: Click here

HISTORICAL WEATHER

Average Temperature



RECOMMENDED SIMILAR PROPERTIES



2.34 Acres Lewiston, Trinity County, California
$250,000



Shannon
Big Valley Properties
Click for phone
Email Shannon



2.39 Acres San Marcos, San Diego County, California
$249,000

Donna Davis
Click for phone
Email Donna



20.16 Acres Somis, Ventura County, California
$3699000



Nona Green
Click for phone
Email Nona



12.1 Acres Fillmore, Ventura County, California
$1,395,000



Kay Wilson-Bolton
Click for phone
Email Kay

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RECENTLY VIEWED



12.09 Acres
Indian Land, York County, South Carolina
$3,900,000

LINK TO THIS PROPERTY

URL Learn more

http://www.landwatch.com/default.aspx?ct=D&pid=3144

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EXPLORE CALIFORNIA

California's diverse geography ranges from hundreds of miles of Pacific coastline and sandy beaches to the snowy Sierra Nevada mountains to the east. The Sierra Nevada contains Yosemite Valley, Lake Tahoe and the Giant Sequoia trees in Sequoia National Park. There are arid deserts, including the lowest and hottest place... more

Mount Shasta



Credits





50 SANTA SUSANA PASS Road, Simi Valley, CA 93063, US $39,000

Map Property | Share Listing | Ask Question | Schedule Showing | Request More Photos

Agent Contact

Bob Wood
Ask Question
Schedule Showing
Click for Phone Number
Click to Email

Moving Quotes

Type of Move
- Select Move Type -

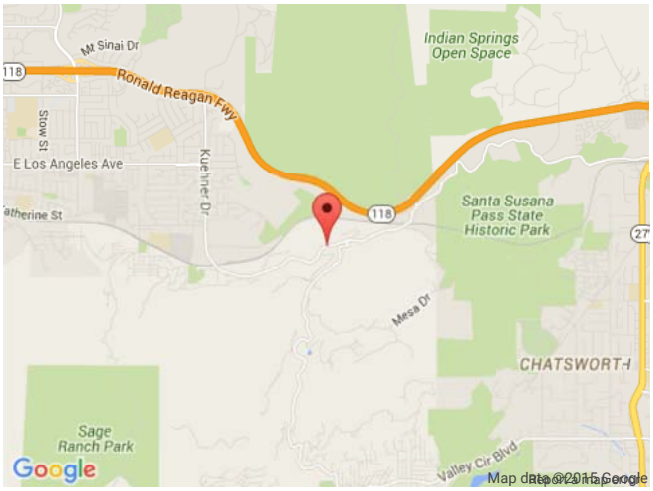
Move date
Nov 11 2015

Moving From Zip

Moving To Zip

Size of Move
- Select a Weight -

Get a Moving Quote



Remarks

GREAT OPPORTUNITY TO BUY A PIECE OF LAND AT A DISCOUNTED PRICE. OVER 20,000 SQFT POSSIBLE HORSE PROPERTY (UNIMPROVED), DOWN SLOPE LOT FROM STREET, NO NEIGHBORS ON EITHER SIDE. UTILITIES IN STREET, ENGINEERED SEPTIC WOULD BE REQUIRED

Details

MLS#: SR15123149
Price: $39,000

County: Ventura
Subdivision: Santa Susana Knolls (166)

Information is believed to be accurate but should not be relied upon without verification.
Data Provided by CRIS-Net Regional MLS (Southland)
Last updated: 2015-09-23T14:20:21.000-07:00.
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Resources

- View Area Foreclosures
- Search More Area Listings!

Broker Contact

RE/MAX Olson & Associates,Inc.
11141 Tampa Ave.
Porter Ranch, CA, 91326
US
Todd Olson
Click for Phone Number
Click to Email
Website

APPENDIX B

Cost Estimate Details

Summary of Development Costs for all Alternatives

Option	Route	Environmental Review	Construction	Land Acquisition	Permitting	Decommissioning	Total
1	**Woolsey Canyon Road Truck Route**	$ -	$ -	$ -	$ -	$ -	**$ -**
2	**Edison Road Truck Route**	**$ 2,000,000**	**$ 12,427,167**	**$ 2,671,200**	**$ 50,000**	**$ 600,000**	**$ 17,748,367**
3	**Edison Road Overland Conveyor**	**$ 2,000,000**	**$ 61,946,250**	**$ 3,696,000**	**$ 50,000**	**$ 12,389,250**	**$ 80,081,500**
	Conveyor		$ 56,052,000			$ 11,210,400	**$ 67,262,400**
	Truck Transfer Site		$ 5,894,250			$ 1,178,850	**$ 7,073,100**
4	**North American Cutoff Road Overland Conveyor**	**$ 2,000,000**	**$ 68,491,136**	**$ 2,083,200**	**$ 50,000**	**$ 13,698,227**	**$ 86,322,563**
	Conveyor		$ 41,346,000			$ 8,269,200	**$ 49,615,200**
	Rail Transfer Site		$ 27,145,136			$ 5,429,027	**$ 32,574,163**
5	**North American Cutoff Road Aerial Conveyor**	**$ 2,000,000**	**$ 40,097,636**	**$ 2,083,200**	**$ 50,000**	**$ 8,019,527**	**$ 52,250,363**
	Conveyor		$ 12,952,500			$ 2,590,500	**$ 15,543,000**
	Rail Transfer Site		$ 27,145,136			$ 5,429,027	**$ 32,574,163**

Notes:

Costs for development of the rail site were provided by RailPros.

Costs for development of the truck site and Edison Haul Road were provided by KOA Corporation.

Costs for development of the overland conveyor options were provided by FLSmidth & Co.

Costs for development of the aerial conveyor option were provided by Leitner S.pA. Agudio.

Costs for environmental review and permitting were provided by ESA and are allocations based on previous experience with other projects.

Decommissioning costs for the Edison Truck Route were provided by KOA Corporation.

Decommissioning costs for all other alternatives are estimated to be 20% of the construction costs.

NACR Road Overland Conveyor

Item	Description	Cost
1	Pipe Conveyor	$ 14,640,000
2	Elevated Sections Support Structures	$ 3,840,000
3	Electrical Controls, Motor VFDs, Switches, Transformer, PLC, etc.	$ 1,800,000
4	Estimated Freight	$ 906,000
5	Estimated Installation and Commissioning	$ 7,320,000
6	Road Improvement / Corridor Preparation *(double lane dirt road, no wall, and off roadway service road)*	$ 6,060,000
7	Conveyor Intrusion Protection Guarding	$ 480,000
8	Concrete Footers and Foundations	$ 900,000
9	Concrete Road Barricade	$ 600,000
10	Crushing / Feeding Station	$ 4,200,000
11	Discharge Surge Bin	$ 600,000
	Pipe Conveyor System Total	**$ 41,346,000**

NACR Road Aerial Conveyor

Item	Description	Cost
1	Conveyor System - Engineering services and training	$ 1,000,000
2	Towers (body structure and heads + ropes + saddles + buckets	$ 3,500,000
3	Loading and offloading stations (excluding civil works)	$ 2,750,000
4	Electrical Controls, Motor VFDs, Switches, Transformer, PLC, etc.	$ 850,000
5	Supervision to Installation and Commissioning (including rope stinging) - Teams AG1-AG7 in Agudio Planning	$ 950,000
6	Estimated cost for Manpower for erection and installation - Team CL1. CL2, CL3 in Agudio planning	$ 1,700,000
7	Estimated Civil works (foundations) for towers and stations	$ 1,402,500
8	Conveyor bucket cleaning system	$ 800,000
	Aerial Conveyor System Total	**$ 12,952,500**

Edison Road Overland Conveyor

Item	Description	Cost
1	PC-001 Pipe Conveyor	$ 13,764,000
2	Elevated Sections Support Structures	$ 4,080,000
3	Electrical Controls, Motor VFDs, Switches, Transformer, PLC, etc.	$ 1,920,000
4	Estimated Freight	$ 918,000
5	Estimated Installation and Commissioning	$ 7,200,000
6	Road Improvement / Corridor Preparation *(double lane dirt road, no wall, and off roadway service road)*	$ 10,200,000
7	Conveyor Intrusion Protection Guarding	$ 330,000
8	Concrete Footers and Foundations	$ 1,020,000
9	Concrete Road Barricade	$ 420,000
10	Crushing / Feeding Station	$ 4,200,000
11	Discharge Surge Bin	$ 600,000
13	Uphill loading station	$ 1,800,000
14	Increased capital for uphill transfer (drives, structure, idlers etc)	$ 3,600,000
15	Downhill unloading station, washing and drying station	$ 6,000,000
	Pipe Conveyor System Total	**$ 56,052,000**

Edison Haul Road Development

Activity	Per Unit	Units	Total
Grading and Excavation	$ 130	CY	$ 8,666,667
Drainage	-	LS	$ 45,000
Asphalt Pavement	$ 120	TONS	$ 1,728,000
Retaining Walls	$ 50	sq.ft.	$ -
Overhead & Misc	-	LS	$ 375,000
Topo Survey	-	LS	$ 60,000
Engineering	-	LS	$ 450,000
Construction Engineering	-	LS	$ 375,000
Maintenance	$ 52,500	year	$ 577,500
Project Adminstration	-	LS	$ 150,000
TOTAL CONSTRUCTION			**$ 12,427,167**

Decomissioning	lump sum	$600,000

Rail Site Development

Item Description	Est. Quantity	Unit	Total Cost
Mobilization			$ 1,884,676
Bonds & Insurance			$ 471,168
Railroad Flagging	50	day	$ 66,924
Trackwork	10,700	feet	$ 3,222,391
Turnouts	5	each	$ 669,240
Railroad subballast	10,700	cubic yards	$ 656,413
Tie-In at SCRRA Connection	1	lump sum	$ 111,540
Railroad Signaling	1	lump sum	$ 557,700
Clearing and Grubbing	11.9	acre	$ 106,358
Earthwork (assumed 2' cuts and fills across paved area+retaining wa	24,741	cubic yards	$ 827,874
Retaining Wall (adjacent to buildings/movie set location. Assume 5'	1,000	linear feat	$ 669,240
Railroad Bridge PCCB (adjacent to stormwater facilities)	120	feet	$ 803,088
Culvert Extensions	1	each	$ 22,308
Roadway Entrance (driveway approach, signage, guard shack, etc)	1	each	$ 55,770
Perimeter Security Fencing (Chain Link)	9,300	linear feat	$ 155,598
Site Power	1	lump sum	$ 167,310
Site Lighting	1	lump sum	$ 1,115,400
Stormwater Conveyance	1	lump sum	$ 557,700
Stormwater Treatment Facilities	1	lump sum	$ 1,673,100
Water Connection	1	lump sum	$ 55,770
Sewer Connection	1	lump sum	$ 167,310
Utility Relocation (eg, fiber optic in SCRRA ROW, unkonwn utilities)	1	lump sum	$ 446,160
Temporary Office/Job Shack	1	each	$ 55,770
Reconstruct/Relocate Existing Storwater Structures	1	lump sum	$ 2,230,800
Conveyor (elevated, enclosed galleries, 36" wide belt, max 1000 TP	250	linear feat	$ 557,700
Surge Bin (500 ton cap'y)	1	each	$ 167,310
Loading Shed with Dust Control	1	each	$ 2,788,500
Railcar Mover (ony required for gondolas)	1	each	$ 223,080
Ventura County/SCRRA ROW Lease	LS	lump sum	$ 89,232
Project Management (% of Capital Cost Subtotal)	0.03	lump sum	$ 1,215,786
Plans, Specifications, & Engineering	0.08	lump sum	$ 2,810,808
Railroad Coordination	0.0025	lump sum	$ 89,232
Construction Management	0.07	lump sum	$ 2,453,880
			$ 27,145,136

Truck Site Development

Item	Description	Qty	Unit	Unit Cost	Total Cost
1	Mobilization	1	LS	$ 50,000	$ 75,000
2	Construction Survey and Monumentation	1	LS	$ 25,000	$ 37,500
3	Stormwater Protection Plan	1	LS	$ 20,000	$ 30,000
4	Clearing and Grubbing	1	LS	$ 25,000	$ 37,500
5	Site Grading	16940	CY	$ 25	$ 635,250
6	Perimeter Fence	2500	LF	$ 20	$ 75,000
7	Security Facilities/Site Office	1	LS	$ 800,000	$ 1,200,000
8	Containment Facilities	1	LS	$ 200,000	$ 300,000
9	Storm Water Collection, Treatment, Disposal Facilities	1	LS	$ 200,000	$ 300,000
10	Aggregate Base	17152	TONS	$ 35	$ 900,000
11	Asphalt Pavement	7547	TONS	$ 75	$ 849,000
12	Curb and Gutter	3000	LF	$ 35	$ 157,500
13	Striping, signing, markings	1	LS	$ 25,000	$ 37,500
14	Drive Access	1	LS	$ 50,000	$ 75,000
15	Gates	1	LS	$ 30,000	$ 45,000
16	Lighting	1	LS	$ 250,000	$ 375,000
17	Truck Wheel Wash	1	LS	$ 10,000	$ 15,000
18	Engineering	1	LS	$ 200,000	$ 300,000
19	Construction Management and Inspection	1	LS	$ 250,000	$ 375,000
20	Testing	1	LS	$ 50,000	$ 75,000
					$ 5,894,250

Operational Costs

Woolsey Canyon Road Truck Route (15 years)		Cost/Ton	Volume (Tons)		Total
Excavation into truck	$	2.13	3,784,500	$	8,060,985
Nonhaz (480 miles roundtrip - truck)	$	40.80	2,371,500	$	96,757,200
Hazardous (620 miles roundtrip - truck)	$	105.40	1,212,000	$	127,744,800
Radiologic (900 miles roundtrip - truck)	$	153.00	201,000	$	30,753,000
Truck tipping fees per ton - Nonhazardous	$	43.40	2,371,500	$	102,923,100
Truck tipping fees per ton - Hazardous	$	58.62	1,212,000	$	71,047,440
Dump soil, clean truck and return, or load	$	5.00	2,023,500	$	10,117,500
Total Cost				**$**	**447,404,025**

Woolsey Canyon Road Truck Route (45 months)		Cost/Ton	Volume (Tons)		Total
Excavation / Load Truck	$	2.13	1,218,000	$	2,594,340
Nonhaz (480 miles roundtrip - truck)	$	40.80	538,500	$	21,970,800
Hazardous (620 miles roundtrip - truck)	$	105.40	505,500	$	53,279,700
Radiologic (900 miles roundtrip - truck)	$	153.00	174,000	$	26,622,000
Truck tipping fees per ton - Nonhazardous	$	43.40	538,500	$	23,370,900
Truck tipping fees per ton - Hazardous	$	58.62	505,500	$	29,632,410
Dump soil, clean truck and return, or load	$	5.00	483,000	$	2,415,000
Total Cost				**$**	**159,885,150**

Edison Road Truck Route		Cost/Ton	Volume (Tons)		Total
Excavation / Load Truck	$	2.13	2,566,500	$	5,466,645
Nonhaz (480 miles roundtrip - truck)	$	40.80	1,833,000	$	74,786,400
Hazardous (620 miles roundtrip - truck)	$	105.40	706,500	$	74,465,100
Radiologic (900 miles roundtrip - truck)	$	153.00	27,000	$	4,131,000
Truck tipping fees per ton - Nonhazardous	$	43.40	1,833,000	$	79,552,200
Truck tipping fees per ton - Hazardous	$	58.62	706,500	$	41,415,030
Dump soil, clean truck and return, or load	$	5.00	1,540,500	$	7,702,500
Subtotal (11 years Edison Road operation)				*$*	*287,518,875*
45 months Woolsey Canyon Road operation				$	159,885,150
Total Operational Cost				**$**	**447,404,025**

Operational Costs

Edison Road Overland Conveyor (11 years)		Cost/Ton	Volume (Tons)		Total
Excavation / Load Truck	$	2.13	2,566,500	$	5,466,645
Load conveyor from stockpile	$	1.07	2,539,500	$	2,717,265
Conveyor Operation / Discharge	$	5.47	2,539,500	$	13,891,065
Nonhaz (480 miles roundtrip - truck)	$	40.80	1,833,000	$	74,786,400
Hazardous (620 miles roundtrip - truck)	$	105.40	706,500	$	74,465,100
Radiologic (900 miles roundtrip - truck)	$	153.00	27,000	$	4,131,000
Truck tipping fees per ton - Nonhazardous	$	43.40	1,833,000	$	79,552,200
Truck tipping fees per ton - Hazardous	$	58.62	706,500	$	41,415,030
Dump soil, clean truck and return, or load	$	5.00	1,540,500	$	7,702,500
Subtotal (11 years conveyor operation)				*$*	*304,127,205*
45 months Woolsey Canyon Road operation				$	159,885,150
Total Operational Cost				**$**	**464,012,355**

North American Cutoff Road Overland Conveyor		Cost/Ton	Volume (Tons)		Total
Excavation / Load Truck	$	2.13	2,566,500	$	5,466,645
Load conveyor from stockpile	$	1.07	2,539,500	$	2,717,265
Conveyor Operation / Discharge	$	5.14	2,539,500	$	13,053,030
Nonhaz (900 miles - rail)	$	90.00	1,833,000	$	164,970,000
Hazardous (1,550 miles - rail)	$	155.00	706,500	$	109,507,500
Radiologic (900 miles roundtrip - truck)	$	153.00	27,000	$	4,131,000
Rail tipping fees per ton - Nonhazardous	$	27.25	1,833,000	$	49,949,250
Rail tipping fees per ton - Hazardous	$	220.00	706,500	$	155,430,000
Dump soil, clean truck and return, or load	$	5.00	1,540,500	$	7,702,500
Subtotal (11 years conveyor operation)				$	512,927,190
45 months Woolsey Canyon Road operation				$	159,885,150
Total Operational Cost				**$**	**672,812,340**

North American Cutoff Road Aerial Conveyor		Cost/Ton	Volume (Tons)		Total
Excavation / Load Truck	$	2.13	2,566,500	$	5,466,645
Load conveyor from stockpile	$	1.07	2,539,500	$	2,717,265
Conveyor Operation / Discharge	$	5.10	2,539,500	$	12,951,450
Nonhaz (900 miles - rail)	$	90.00	1,833,000	$	164,970,000
Hazardous (1,550 miles - rail)	$	155.00	706,500	$	109,507,500
Radiologic (900 miles roundtrip - truck)	$	153.00	27,000	$	4,131,000
Rail tipping fees per ton - Nonhazardous	$	27.25	1,833,000	$	49,949,250
Rail tipping fees per ton - Hazardous	$	220.00	706,500	$	155,430,000
Dump soil, clean truck and return, or load	$	5.00	1,540,500	$	7,702,500
Subtotal (11 years conveyor operation)				$	512,825,610
45 months Woolsey Canyon Road operation				$	159,885,150
Total Operational Cost				**$**	**672,710,760**

Estimated Operating Assumptions - Overland Conveyor

Item	NACR Route	Edison Road Route
Annual Conveyor Throughput	185,000 cy/yr	185,000 cy/yr
Conveyor Annual Operating Hours	2520 hr/yr	2520 hr/yr
Electricity Cost	$0.08 /kWh	$0.08 /kWh
Average Running Power	1,600 kW1	2,030 kW1
Operator Loaded Labor Rate	50.00 $/hr	50.00 $/hr
Maintenance Loaded Labor Rate	50.00 $/hr	50.00 $/hr
Number of Operators per Operating Hour	1	1
Number of Maintenance People per Operating Hour	1	1
Maintenance Parts % of Equipment Cost2	4.00%	4.00%

Estimated Annual Operating Cost - Overland Conveyor

Component	NACR Route	Edison Road Route
Electric Power ($/yr)	$ 322,560	$ 409,248
Maintenance Parts ($/yr)	$ 588,720	$ 594,800
Operator Labor ($/yr)	$ 257,040	$ 257,040
Maintenance Labor ($/yr)	$ 257,040	$ 257,040
Total Annual Cost ($/yr)	$ 1,425,360	$ 1,518,128
Cost/CY (185,000 cy/year)	$ 7.70	$ 8.21
Cost/Ton	$ 5.14	$ 5.47

Estimated Operating Assumptions - Aerial Conveyor

Item	Assumptions
Conveyor Annual Operating Hours	2,520 hr/yr
Electricity Cost	$0.08 /kWh
Average Running Power	430 kW
Operator Loaded Labor Rate	50.00 $/hr
Maintenance Loaded Labor Rate	50.00 $/hr
Number of Operators per Operating Hour	2
Number of Maintenance People per Operating Hour	2
Maintenance Parts % of Equipment Cost	4.00%

Estimated Annual Operating Cost - Aerial Conveyor

Component	Cost (Annual)
Electric Power ($/yr)	$ 86,688
Maintenance Parts ($/yr)	$ 300,000
Operator Labor ($/yr)	$ 514,080
Maintenance Labor ($/yr)	$ 514,080
Total Annual Cost ($/yr)	$ 1,414,848
Cost/CY (185,000 cy/year)	$ 7.65
Cost/Ton	$ 5.10

Tipping Fees	Cost/Ton
Waste Mangement Arlington, OR Hazardous - Rail	$ 220.00
ECDC Clive, Utah Nonazardous - Rail	$ 27.25
Kettleman Hills Nonhazardous - Truck	$ 43.40
Kettleman Hills Hazardous - Truck	$ 58.62

APPENDIX C

Air Quality and GHG Calculations

Transportation Feasibility Study
Air Quality and GHG

Santa Susana Field Laboratory

Transportation Feasibility Study Appendix TOC & List of Tables

Transportation Feasibility Study Appendix Sections

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2. Construction Emissions Calculations
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4. Operational Truck Emissions Calculations
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4-7	Change in Truck Emissions (difference between routes)
4-8	Haul Emissions: Edison Road Truck Route & Edison Road Overland Conveyor
4-9	Haul Emissions: North American Cutoff Overland Or Aerial Conveyor
4-10	Truck Emissions - Woolsey Canyon Road Truck Route - GHG
4-11	Change in Truck Emissions (difference between routes) - GHG
4-12	Haul Emissions: Edison Road Truck Route & Edison Road Overland Conveyor - GHG
4-13	Haul Emissions: North American Cutoff Overland Or Aerial Conveyor - GHG
5-1	Train Emissions
5-2	Train Emissions - GHG

Transportation Feasibility Study
Air Quality and GHG
Construction Emissions Assumptions

SSFL Transportation Feasibility Analysis
Woolsey Canyon Road Truck Route
Assumptions

The truck route via Woolsey Canyon Road to SR 118 or US 101 would begin at the east gate of the SSFL facility and use public roadways via the routes listed below. Construction of new roadways or widening of existing roadways would not be necessary to establish use of these roadways for haul routes .

Construction/Decommissioning Equipment and Workforce

No construction is necessary for this haul route, so no additional equipment or workforce would be necessary. This haul route, which consists of a public roadway, would not be decommissioned upon completion of cleanup activities.

SSFL Transportation Feasibility Study
Edison Road Truck Route
Assumptions

The proposed Edison Road Truck Route for SSFL remediation activities would be located along Edison Road, which is privately owned by a developer and operated by SCE via an easement. This haul route would operate as a private road, with a controlled access point at the south end (at the SSFL site) and north end, where Edison Road would be extended to access Guardian Street. This route would not cross any public roadways before accessing Guardian Street.

This roadway would be located within a corridor that roughly parallels the existing Edison Road, an unpaved single-lane facility. Because of the need to provide a roadway that is adequate for truck-turning radii, and the need for two-lane segments in some areas, the analyzed centerline of the proposed truck hauling road does not necessarily overlap with that of the existing Edison Road. Long box trailer, or double trailer, loads would not be feasible for travel on this potential truck haul route. Shorter box trailers, flatbeds, truck-rail container loads, and dump trailers would be more likely candidates. The conceptual engineering of this roadway considered that some portions, where feasible, would have two lanes of travel, and some areas would have single lanes of travel based on the topography.

Implementation Scheudle

Construction	13 months	Apr-20	Apr-21
Operation	17 years	Apr-21	Feb-38
Decommissioning	NA	NA	NA

Construction/Decommissioning Equipment and Workforce

Construction of this truck haul roadway is estimated to require the following construction equipment and employees:

Scraper	4
Excavator	4
Bulldozer/Backhoe	2
Motor Grader	2
Sheepsfoot Compactor	1
Dump Trucks	10
Paving Equipment	1
Water Trucks	4
Workers	36

SSFL Transportation Feasibility Study
Edison Road Overland Conveyor
Assumptions

This option consists of constructing an overland conveyor along Edison Road that would transport soil from the west side of the SSFL site to Truck Site 1. The centerline of the route location may not always show the conveyor on the roadway. The intention is for the conveyor to follow the roadway as much as possible. The conveyor would not take over the road ROW or prohibit access. Edison Road would still be available to SCE for inspection and maintenance of its transmission line. The road would also be used as an access road for conveyor maintenance.

This route was chosen for further detailed analysis because it provides relatively direct access from the SSFL site to a viable transfer site (Truck Site 1). A conveyor route in this corridor can be constructed to roughly follow the existing and disturbed ROW, providing access to the route for construction and maintenance, and the slopes along the corridor provide a more feasible construction scenario, compared to other conveyor routes considered.

Rail Logistics

This route would terminate at Truck Site 1, where the conveyed material would be transferred into haul trucks for direct transport to disposal facilities and would not involve any transport by rail.

Implementation Scheudle

Construction	15 months	Apr-20	Jun-21
Operation	17 years	Jun-21	Feb-38
Decommissioning	13 months	Mar-38	Mar-39

Construction/Decommissioning Equipment and Workforce

Construction of this truck haul roadway is estimated to require the following construction equipment and employees:

Conveyor

Hydraulic Cranes	2
Portable welders	2
Service Trucks	4
Front-end Loader	1
Bulldozers	2
Backhoe	1
Grader	1
Workers	12

SSFL Transportation Feasibility Study

Edison Road Overland Conveyor

Assumptions

Truck Site 1

Front end Loader/Backhoe	3
Graders	2
Scraper	1
Excavators	2
Dump Trucks	20
Sheepfoot compactor	2
Roller compactor	2
curb and gutter cast machine	1
Pickup trucks	20
Auger	1
Truck mounted Crane	1
Workers	30

SSFL Transportation Feasibility Study
North American Cutoff Overland Conveyor
Assumptions

The centerline of the route does not exactly follow the road ROW, but the conveyor would follow the roadway as much as possible. An initial 165-foot length of conveyor is required for material loading and to fully enclose the pipe at the tail end of the conveyor. Once enclosed, the pipe conveyor route follows along the western side of Facility Road until it reaches the intersection of Black Canyon Road and North American Cutoff Road. The conveyor crosses over Black Canyon Road on an elevated structure and then continues along the northern side of North American Cutoff Road.

The pipe conveyor route leaves the road grade in two more sections where the road curve radius is greater than the design radius of the pipe conveyor. Elevated structures would be used to cross two smaller ravines prior to reaching the upper grade section.

Once the upper elevation section is reached, the pipe conveyor crosses over North American Cutoff Road and primarily continues along the south side of the road. Whenever the conveyor route must leave the road grade, the conveyor is supported on elevated structures.

The final section of the road continues along the south side of North American Cutoff Road until the paved Box Canyon Road is reached. The conveyor crosses over the North American Cutoff Road, a private road, and the Santa Susana Pass Road, all on elevated structures. Once across Santa Susana Pass Road, the conveyor declines rapidly across previously undisturbed land and terminates at Rail Site 2B.

Rail Logistics

Common to nearly all rail operations is the need to avoid interrupting main line operations with the switching of railcars on the main line. This premise drives the track configurations and operational patterns at the site.

The freight service on this line is provided by a separate entity, UPRR, which owns the franchise to provide freight service on this portion of SCRRA's tracks.

Concepts for Rail Transfer Site 2B keep freight switching off the main line by constructing a new lead track parallel to the main line. Based on aerial imagery, there appears to be adequate space for such a track. ROW acquisition may be required. This track would allow trains in the yard area to make "back-and-forth" switching movements required for loading without occupying the main line.

Implementation Scheudle

Construction	15 months	Apr-20	Jun-21
Operation	17 years	Jun-21	Feb-38
Decommissioning	13 months	Mar-38	Mar-39

Construction/Decommissioning Equipment and Workforce

Construction of this truck haul roadway is estimated to require the following construction equipment and employees:

SSFL Transportation Feasibility Study
North American Cutoff Overland Conveyor
Assumptions

Conveyor

Hydraulic Cranes	2
Portable welders	2
Service Trucks	4
Front-end Loader	1
Bulldozers	2
Backhoe	1
Grader	1
Workers	12

Rail Site

Ballast Regulator	1
Bulldozers	2
Paver	1
Compactor	1
Crane	1
Dump trucks	2
excavator	1
Forklift	1
Loaders	2
Grader	1
Railroad Tamper	1
Workers	10

SSFL Transportation Feasibility Study
North American Cutoff Aerial Conveyor
Assumptions

This section discusses a potential aerial conveyor route, from the east side of the SSFL site to Rail Site 2B on the east side of the study area. This route would generally follow the same route as for the North American Cutoff Overland Conveyor. The routes identified along North American Cutoff Road for the surface conveyor and aerial conveyor technologies differ based on the topographical and road radius design limitations specific to each conveyor technology.

Rail Logistics

This conveyor route would link to Rail Site 2B. The conveyor would have a northern terminus at that site, and materials would be transferred to railcars via transfer facilities constructed at that site as described for the Overland Conveyor Alternative.

Implementation Scheudle

Construction	12 months	Apr-20	Mar-21
Operation	17 years	Apr-21	Feb-38
Decommissioning	12 months	Mar-38	Mar-39

Construction/Decommissioning Equipment and Workforce

Construction of this truck haul roadway is estimated to require the following construction equipment and employees:

SSFL Transportation Feasibility Study

North American Cutoff Aerial Conveyor

Assumptions

Conveyor

Hydraulic Cranes	2
bulldozers	2
dump trucks	2
excavators	2
Forklifts	2
Trucks	2
Workers	22

Rail Site

Ballast Regulator	1
Bulldozers	2
Paver	1
Compactor	1
Crane	1
Dump trucks	2
excavator	1
Forklift	1
Loaders	2
Grader	1
Railroad Tamper	1
Workers	10

SSFL Transportation Feasibility Analysis

Construction Emissions

Criteria Pollutant Emissions

Table 1-1: Adjusted Tier 4 Emission Factors (g/bhp-hr)

	VOC	NOx	CO	SOx	PM10	PM2.5	HP	LF	
Percent Reduction	0	0	0	0	0	0			
Rubber Tired Dozers	0.08	1.29	2.6	0.005	0.008	0.008	247	0.4	
Tractors/Loaders/Backhoes	0.11	2.14	3.7	0.005	0.008	0.008	97	0.37	
Graders	0.08	1.29	2.6	0.005	0.008	0.008	187	0.41	
Excavators	0.06	2.15	3.7	0.005	0.008	0.008	158	0.38	
Scrapers	0.08	1.29	2.6	0.005	0.008	0.008	367	0.48	
	0.12	2.74	3.7	0.005	0.112	0.112	64	0.46	
cranes	0.08	1.29	2.6	0.0049	0.008	0.008	236	0.29	
Forklifts	0.11	2.14	3.7	0.005	0.008	0.008	89	0.20	
auger	0.08	1.29	2.6	0.005	0.008	0.008	221	0.5	Bore/Drill Rig
Blast Regulator	0	0	0	0	0	0			(Not diesel/gas, no emissions)
Curb Gutter Cast	0.06	2.15	3.7	0.005	0.008	0.008	130	0.42	(modeled using Paver)
Railroad Tamper	0.06	2.15	3.7	0.005	0.008	0.008	172	0.42	(Other Construction Equipment)
Paver	0.06	2.15	3.7	0.005	0.008	0.008	130	0.42	
Paving Equipment	0.06	2.15	3.7	0.005	0.008	0.008	132	0.36	
Plate Compactor	0.12	4.55	4.1	0.005	0.128	0.128	8	0.43	
Roller compactor	0.11	2.14	3.7	0.005	0.008	0.008	80	0.38	
welders	0.12	4.55	4.1	0.005	0.128	0.128	46	0.45	

Table 1-2: Emission Factors (g/mile)

	VOC	NOx	CO	SOx	PM10	PM2.5
Water Truck	0.228949	5.49369	8.521567	0.016	0.00607	0.005811
Dump Truck	0.228949	5.49369	8.521567	0.016	0.00607	0.005811
Service Trucks	0.055925	0.11149	1.355542	0.00303	0.00488	0.004491
Onsite Worker Transport	0.055925	0.11149	1.355542	0.00303	0.00488	0.004491

SSFL Transportation Feasibility Analysis
Construction Emissions
Criteria Pollutant Emissions

Onsite Exhaust Emission Factors

Assumptions:

- Equipment type and number (Table 1-4) taken from the PD.
- Quantity of each equipment type was provided by DTSC based on current onsite operations.
- Emission factors for onsite construction equipment taken from Table 3.4 of Appendix D of the CalEEMod user guide (BREEZE software, a Division of Trinity Consultants, 2016). 2016 emission factors were used as a conservative estimate for all years as equipment is not anticipated to be changed out unless it breaks. Therefore even though construction could last for 18 years, there is the potential that the same equipment in use at the beginning of the project would be in use at the end of the project.
- Emissions for water truck and Haul trucks taken from EMFAC 2014 for Ventura County for Heavy Heavy Duty Trucks at 15 mph. Haul Trucks adjusted to a 2014 vehicle fleet only
- Emission factors for onsite worker transport trips are from EMFAC2014 for Ventura County for LDA vehicles traveling 15 mph.
- Horsepower and load factors taken as the average for each equipment type from Table 3.3 of Appendix D of the CalEEMod User's Guide (BREEZE software, a Division of Trinity Consultants, 2016).
- Tier 4 Interim Emissions are taken from Table 3.5 of Appendix D of the CalEEMod User Guide (BREEZE software, a Division of Trinity Consultants, 2016). Tier 3 is an EPA standard for emissions of offroad vehicle engines.

SSFL Transportation Feasibility Analysis

Construction Emissions

Criteria Pollutant Emissions

Table 1-3: Criteria Pollutant Emission Factors Per 8 hour work day per vehicle

	VOC	NOx	CO	SOx	PM10	PM2.5
	(lbs/day) per equipment type					
Rubber Tired Dozers	0.1394	2.24783	4.530511	0.00871	0.01394	0.01394
Tractors/Loaders/Backhoes	0.069628	1.35458	2.342028	0.00316	0.00506	0.005064
Graders	0.108176	1.74434	3.515732	0.00676	0.01082	0.010818
Excavators	0.063534	2.27665	3.917954	0.00529	0.00847	0.008471
Scrapers	0.24855	4.00787	8.077884	0.01553	0.02486	0.024855
cranes	0.096564	1.5571	3.138342	0.00591	0.00966	0.009656
Forklifts	0.034533	0.67182	1.161552	0.00157	0.00251	0.002511
auger	0.155908	2.51402	5.067019	0.00974	0.01559	0.015591
Blast Regulator	0	0	0	0	0	0
Curb Gutter Cast	0.057778	2.07037	3.562963	0.00481	0.0077	0.007704
Railroad Tamper	0.076444	2.73926	4.714074	0.00637	0.01019	0.010193
Paver	0.057778	2.07037	3.562963	0.00481	0.0077	0.007704
Paving Equipment	0.050286	1.8019	3.100952	0.00419	0.0067	0.006705
Plate Compactor	0.00728	0.27605	0.248748	0.0003	0.00777	0.007766
Roller compactor	0.058977	1.14737	1.983774	0.00268	0.00429	0.004289
welders	0.04381	1.66111	1.496825	0.00183	0.04673	0.04673
Water Truck	0.045426	1.09002	1.690787	0.00317	0.00121	0.001153
Service Truck	0.011096	0.02212	0.268957	0.0006	0.00097	0.000891
Dump Truck (VCAPCD)	0.005714	0.1371	0.212663	0.0004	0.00015	0.000145
Dump Truck (SCAQMD)	0.009883	0.23714	0.36784	0.00069	0.00026	0.000251
Dump Truck (Offsite)	0.010095	0.24223	0.37573	0.00071	0.00027	0.000256
Worker Commute (VCAPCD)	0.003861	0.0077	0.093597	0.00021	0.00034	0.00031
Worker Commute (SCAQMD)	0.00488	0.00973	0.118281	0.00026	0.00043	0.000392
Worker Commute (Total)	0.004932	0.00983	0.119536	0.00027	0.00043	0.000396

8 Hour work day

Emissions per day determined by multiplying the emission factor, load factor, and horsepower (Table 1-1) by the number of ours per day (8) then dividing grams by 453.6 to convert to pounds.

SSFL Transportation Feasibility Analysis
Construction Emissions
Criteria Pollutant Emissions

Equations

- Daily emssions = (Emission Factor X Horse power X Load Factor X Quantity X Hours per day) / 453.6
  - 453.6 grams per pound
  - Emission Factor, Horse Power, and Load Factor from Appendix Table Table 1-1.
  - 8 Hour work day
- Daily emissions (Water truck) = (Emission Factor X Miles) / 453.6
  - Assumes water trucks at 90 miles per day for onsite operations (15 mph for 6 hrs per day)
  - Assumes dump trucks have 20 mile offsite round trip daily (11.32 max in VCAPCD; 19.58 max in SCAQMD)
  - Assumes total of 40 miles round trip per day for workers (max 31.32 in VCAPCD or Max 39.58 in SCAQMD)

*Totals may not add exactly due to rounding.

Table 1-4: Construction Equipment List

	Woosley Canyon	Edison Road	Overland Conveyor	Truck Site	Rail Site	Aerial Conveyor	
Rubber Tired Dozers	0	0	2	0	2	2	
Tractors/Loaders/Backhoes	0	2	2	3	2	0	
Graders	0	2	1	2	1	0	
Excavators	0	4	0	2	1	2	
Scrapers	0	4	0	1	0	0	
cranes	0	0	2	1	1	2	
Forklifts	0	0	0	0	1	2	
auger	0	0	0	1	0	0	
Blast Regulator	0	0	0	0	1	0	Not diesel
Curb Gutter Cast	0	0	0	1	0	0	(Paver)
Railroad Tamper	0	0	0	0	1	0	Other equipment
Paver	0	0	0	0	1	0	
Paving Equipment	0	1	0	0	0	0	
Compactor	0	1	0	2	1	0	
Roller compactor	0	0	0	2	0	0	
welders	0	0	2	0	0	0	
Water Truck	0	4	0	0	0	0	
service trucks	0	0	4	20	0	2	(worker trucks - gas vehicles)
Dump Truck (offsite)	0	10	0	20	2	2	(Haul trucks)
Workers	0	36	12	30	10	22	
Months	0	13	11.25	3.75	3.75	8.25	

SSFL Transportation Feasibility Analysis

Construction Emissions

Fugitive Dust Emissions

Onsite Fugitive Dust Emission Factors

Fugitive emissions from scrapers/graders:

PM10 = (0.051 x (S)2.0) X FPM10
= (0.051 x (7.1)2.0) X 0.6
= 1.542546 lbs/VMT

S = mean vehicle speed (mph) Default = 7.1
FPM10 = PM10 scaling factor default of 0.6
FPM2.5 = PM2.5 scaling factor default of 0.031

PM2.5 = (0.04 x (S)2.5) x FPM2.5
= (0.04 x (7.1)2.5) x 0.031
= 0.16655879 lbs/VMT

Fugitive emissions from Dozers and Excavators:

PM10 = ((CPM15 x s1.5)/M1.4) x FPM10
= ((1 x 6.91.5)/7.91.4) x 0.75
= 0.752760759 lbs/hr

CPM15 = arbitary coefficient used by AP-42 = 1
s = material silt content = 6.9 %
M = material moisture content = 7.9%
FPM10 = PM10 scaling factor default of 0.75

PM2.5 = ((CTSP x s1.2)/M1.3) x FPM2.5
= ((5.7 x 6.91.2)/7.91.3) x 105
= 0.413778428 lbs/hr

CTSP = arbitary coefficient used by AP-42 = 5.7
FPM2.5= PM2.5 scaling factor default of 0.105

Fugitive emissions from truck loading

PM10 = k x (0.0032) x ((U/5)1.3/(M/2)1.4)
= 0.35 x (0.0032) x ((5.82/5)1.3/(12/2)1.4)
= 0.000110958 lbs/ton

k = particle size (PM10 = 0.35, PM2.5 = 0.053)
U= wind speed (miles - hour) = 5.816034
M = Material moisture content = 12%

PM2.5 = k x (0.0032) x ((U/5)1.3/(M/2)1.4)
= 0.053 x (0.0032) x ((5.82/5)1.3/(12/2)1.4)
= 1.68023E-05 lbs/ton

SSFL Transportation Feasibility Analysis

Construction Emissions

Fugitive Dust Emissions

Onsite Fugitive Emissions

Assumptions

- Emissons for graders and scrapers = Emission factor x(((Acres / blade width of 12 ft) x 43,560 sqft per acre) / 5,280 ft per mile)
- Acres are based on table provided on page 9 of CalEEMod Appendix A.
  scrapers 1 acers/8hr day
- Emissions include a 63% reduction for required fugitive dust control measures.

- Emissions for dozers/excavators = # equipment X hours of operation X emission factor
- Emissions for Excavation truck loading = EF x Tons
- Emissions for Mechanical demolition and debris loading = Emission Factor (lbs/ton) X tons of debris
- Assumes 23 tons per truck

Table 1-5: Onsite Equipment producing fugitive emissions

	Woosley Canyon	Edison Road	Overland Conveyor	Truck Site	Rail Site	Aerial Conveyor
scrapers	0	4	0	1	0	0
graders	0	2	1	2	1	0
dozers	0	0	2	0	2	2
excavators	0	4	0	2	1	2
Dump Trucks	0	10	0	20	2	2

Equipment numbers taken from Table 1-4.

SSFL Transportation Feasibility Analysis

Construction Emissions

GHG Emissions

Table 1-6: Construction Exhaust GHG Emission Factors (g/bhp-hr)

Emission Factors (g/bhp-hr)

	CO_2	CH_4	HP	LF	CalEEMod Category
Rubber Tired Dozers	509.46	0.15	247	0.40	
Tractors/Loaders/Backhoes	511.3456	0.154	97	0.37	
Graders	511.6959	0.154	187	0.41	
Excavators	506.495	0.153	158	0.38	
Scrapers	502.255	0.151	367	0.48	
cranes	507.1552	0.153	236	0.29	
Forklifts	505.5833	0.153	89	0.2	
auger	502.128	0.151	221	0.5	Bore/Drill Rig
Blast Regulator	0	0			(Not diesel/gas, no emissions)
Curb Gutter Cast	506.5401	0.153	130	0.42	(modeled using Paver)
Railroad Tamper	509.3069	0.152	172	0.42	(Other Construction Equipment)
Paver	506.5401	0.153	130	0.42	
Paving Equipment	504.8201	0.152	132	0.36	
Plate Compactor	568.299	0.059	8	0.43	
Roller compactor	508.1987	0.153	80	0.38	
welders	568.299	0.138	46	0.45	

Table 1-7: GHG Emission Factors (gr/mile)

	CO_2	CH_4/N_2O
Water Truck	2,582	129
Dump Truck	2,582	129
Service Trucks	556	28
Onsite Worker Transport	556	28

SSFL Transportation Feasibility Analysis

Construction Emissions

GHG Emissions

Table 1-8: GHG Emission Factors Per 8 hour work day per vehicle

	CO_2	CH_4
	MT/Day	
Rubber Tired Dozers	0.4027	0.0001
Tractors/Loaders/Backhoes	0.1468	0.0000
Graders	0.3139	0.0001
Excavators	0.2433	0.0001
Scrapers	0.7078	0.0001
cranes	0.2777	0.0000
Forklifts	0.0720	0.0001
auger	0.4439	0.0000
Blast Regulator	0.0000	0.0001
Curb Gutter Cast	0.2213	0.0001
Railroad Tamper	0.2943	0.0001
Paver	0.2213	0.0001
Paving Equipment	0.1919	0.0000
Plate Compactor	0.0156	0.0000
Roller compactor	0.1236	0.0000
welders	0.0941	0.0000
Water Truck	0.2324	0.0116
Service Truck	0.0500	0.0025
Dump Truck (VCAPCD)	0.0292	0.0015
Dump Truck (SCAQMD)	0.0506	0.0025
Dump Truck (Offsite)	0.0516	0.0026
Worker Commute (VCAPCD)	0.0174	0.0009
Worker Commute (SCAQMD)	0.0220	0.0011
Worker Commute (Total)	0.0222	0.0011

8 hour work day

0.000001 g/MT

Table 1-9: Construction Schedule

	Woosley Canyon	Edison Road	Overland Conveyor	Truck Site	Rail Site	Aerial Conveyor
Months	0	12	11.25	3.75	3.75	8.25
Days/Month	~22	~22	~22	~22	~22	~22
Days/year	0	260	243.75	81.25	81.25	178.75

SSFL Transportation Feasibility Analysis
Overall Feasibility Study
Train Emission Factors & Emissions Per Mile

UPRR Engine Emissions

	2014 Fleet Percentage[1]
Uncontrolled	0.29%
Tier 0	29.45%
Tier 1	14.43%
Tier 2	36.74%
Tier 3	15.07%
Tier 4	0.04%

[1] *CARB 2015. 2014 UP Locomotive Summary. Available : http://www.arb.ca.gov/railyard/1998agree/1998agree.htm; Accessed May 2016*

Table 1-9: Train Emission Factors by Tier

	PM10[2] (g/bhp-hr)		HC[2] (g/bhp-hr)		CO[2] (g/bhp-hr)	SO_2[2]	NOx[3] (g/bhp-hr)	CO_2[2]
	Raw	Fleet	Raw	Fleet	Raw			
Uncontrolled	0.32	0.0939743	0.48	0.14096	1.28	-	-	-
Tier 0	0.32	9.42251523	0.48	14.1338	1.28	-	-	-
Tier 1	0.32	4.61628749	0.47	6.78017	1.28	-	-	-
Tier 2	0.18	6.61366784	0.26	9.55308	1.28	-	-	-
Tier 3	0.08	1.20555843	0.13	1.95903	1.28	-	-	-
Tier 4	0.15	0.00549375	0.04	0.00147	1.28	-	-	-
Fleet Average		0.21957497		0.32568	1.28		5.5	
Gr/gallon[4]		4.56715939		6.77424	26.624	1.88	114.4	10,217
ROG Emissions[5]				7.13328				
PM2.5 Emissions[6]		4.4301446						

456 miles per gallon[7]
0.002205 lbs per gram
0.000001 MT per gram

Table 1-10: Composit Train Emission Factors

	ROG	NOx	CO	SO_2	PM10	PM2.5	CO_2	CH_4
lbs/gallon	0.01572888	0.252252	0.058706	0.00415	0.010071	0.00976847	-	-
MT/gallon	-	-	-	-	-	-	0.010217	0.0005109

Criteria Pollutants

7,350 Tons per train
456 miles per gallon
576 miles per day
1.26 gallons/ton
9,284.21 gallons/trip

GHG

7,350 Tons per train
456 miles per gallon
1,550 miles per train
3.40 gallons/ton
24,983.55 gallons/trip

Table 1-11: Train Emissions: Per Train and Per mile

	ROG	NOx	CO	SO_2	PM10	PM2.5	CO_2	CH_4
lbs/day	146.03	2341.96	545.04	38.49	93.50	90.69	-	-
lbs/mile	0.25	4.07	0.95	0.07	0.16	0.16	-	-
MT/train	-	-	-	-	-	-	255.25696	12.762848
MT/mile	-	-	-	-	-	-	0.1646819	0.0082341

[2] *USEPA 2009. Emission Factors for Locomotives EPA-420-F-09-025. April. Available: www3.epa.gov/nonroad/locomotv/420f09025.pdf. Accessed May 2016*

[3] *CARB 2015. 1998 Locomotive Nox Fleet Average Emissions Agreement in South Coast Air Basin. Updated November 17, 2015. Available : http://www.arb.ca.gov/railyard/1998agree/1998agree.htm; Accessed May 2016*

[4] *grams/gallon is equal to g/bhp-hr times 20.8*[2]

[5] *VOC emissions are assumed to be equal to 1.053 times the HC emissions2*

[6] *PM2.5 emissions are estimated as 0.97 times the PM10 emissions2*

[5] On average UPRR trains can move one ton of freight 456 miles on a single gallon of gas: Available: http://www.up.com/aboutup/environment/operations/index.htm. Accessed: May 2016

Transportation Feasibility Study
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SSFL Transportation Feasibility Analysis
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Data for thesesummary tables were pulled from Tables: 2-6 to 2-14

Tabe 2-1: Woolsey Canyon Road Truck Route - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Onsite Construction	0	0	0	0	0	0	0
Fugitive Emissions	-	-	-	-			-
Offsite (VCAPCD	0	0	0	0	0	0	0
Offsite (SCAQMD)	0	0	0	0	0	0	0
Offsite (Total)	0	0	0	0	0	0	0
Construction Total	0	0	0	0	0	0	0
Total (VCAPCD)	0	0	0	0	0	0	0
Total (SCAQMD)	0	0	0	0	0	0	0
	Tons/year						
Total	0	0	0	0	0	0	
Total (VCAPCD)	0	0	0	0	0	0	
Total (SCAQMD)	0	0	0	0	0	0	

Table 2-2: Edison Road Truck Route - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Onsite Construction	2	38	70	0	0	0	1,537
Fugitive Emissions	-	-	-	-	14	6	-
Offsite (VCAPCD	0	2	5	0	0	0	251
Offsite (SCAQMD)	0	3	8	0	0	0	354
Offsite (Total)	0	3	8	0	0	0	360
Construction Total	2	41	78	0	14	7	1,896
Total (VCAPCD)	2	39	75	0	14	7	1,788
Total (SCAQMD)	2	40	78	0	14	7	1,891
	Tons/year						
Total	<1	5	10	<1	2	1	
Total (VCAPCD)	<1	5	10	<1	2	1	
Total (SCAQMD)	<1	5	10	<1	2	1	
Total Woolsey Cayon Operational Plus Edison Road Construction							
	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Total	5	91	97	2	14	7	13,025
Total (VCAPCD)	2	41	76	0	14	7	2,003
Total (SCAQMD)	4	64	87	1	14	7	7,040
	Tons/year						
Total (VCAPCD)	1	12	13	<1	2	1	

SSFL Transportation Feasibility Analysis
Emissions Summary
Construction

Data for thesesummary tables were pulled from Tables: 2-6 to 2-14

Table 2-3: Edison Road Overland Conveyor - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
	Overland Conveyor						
Onsite Construction	1	15	28	0	0	0	577
Fugitive Emissions	-	-	-	-	6	3	-
Offsite (VCAPCD	0	0	1	0	0	0	53
Offsite (SCAQMD)	0	0	1	0	0	0	68
Offsite (Total)	0	0	1	0	0	0	68
Conveyor Total	1	16	29	0	0	0	645
Conveyor (VCAPCD)	1	16	29	0	6	3	630
Conveyro (SCAQMD)	1	16	29	0	6	3	645
	Truck Site						
Onsite Construction	1	26	52	0	0	0	369
Fugitive Emissions	-	-	-	-	7	3	-
Offsite (VCAPCD	0	3	7	0	0	0	94
Offsite (SCAQMD)	0	5	11	0	0	0	143
Offsite (Total)	0	5	11	0	0	0	145
Truck Site Total	2	31	63	0	0	0	514
Truck site (VCAPCD)	2	29	59	0	7	3	463
Trucksite (SCAQMD)	2	31	62	0	7	3	511
	Construction Total						
Total	3	46	92	0	13	7	1,159
Total (VCAPCD)	3	44	87	0	13	7	1,093
Total (SCAQMD)	3	46	92	0	13	7	1,156
	Tons/year						
Total	<1	6	12	<1	2	1	
Total (VCAPCD)	<1	6	11	<1	2	1	
Total (SCAQMD)	<1	6	12	<1	2	1	

Total Woolsey Cayon Operational Plus Edison Road Overland Conveyor Construction

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Total	6	97	111	2	14	7	12,287
Total (VCAPCD)	3	46	88	0	13	7	1,309
Total (SCAQMD)	4	70	100	1	13	7	6,305
	Tons/year						
Total (VCAPCD)	1	13	14	<1	2	1	

SSFL Transportation Feasibility Analysis
Emissions Summary
Construction

Data for thesesummary tables were pulled from Tables: 2-6 to 2-14

Table 2-4: North American Cutoff Overland Conveyor - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
	Overland Conveyor						
Onsite Construction	1	15	28	0	0	0	577
Fugitive Emissions	-	-	-	-	6	3	-
Offsite (VCAPCD	0	0	1	0	0	0	53
Offsite (SCAQMD)	0	0	1	0	0	0	68
Offsite (Total)	0	0	1	0	0	0	68
Conveyor Total	1	16	29	0	0	0	645
Conveyor (VCAPCD)	1	16	29	0	6	3	630
Conveyro (SCAQMD)	1	16	29	0	6	3	645
	Rail Site						
Onsite Construction	1	19	34	0	0	0	412
Fugitive Emissions	-	-	-	-	9	5	-
Offsite (VCAPCD	0	0	1	0	0	0	38
Offsite (SCAQMD)	0	1	2	0	0	0	52
Offsite (Total)	0	1	2	0	0	0	53
Truck Site Total	1	19	36	0	0	0	465
Truck site (VCAPCD)	1	19	35	0	9	5	450
Trucksite (SCAQMD)	1	19	36	0	9	5	464
	Construction Total						
Total	2	35	65	0	15	8	1,110
Total (VCAPCD)	2	34	64	0	15	8	1,081
Total (SCAQMD)	2	35	65	0	15	8	1,109
	Tons/year						
Total	<1	5	8	<1	2	1	
Total (VCAPCD)	<1	4	8	<1	2	1	
Total (SCAQMD)	<1	5	8	<1	2	1	

Total Woolsey Cayon Operational Plus North American Cutoff Overland Conveyor Construction

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Total	5	85	84	2	15	8	12,239
Total (VCAPCD)	2	36	65	0	15	8	1,296
Total (SCAQMD)	3	58	74	1	15	8	6,258
	Tons/year						
Total (VCAPCD)	1	11	11	<1	2	1	

SSFL Transportation Feasibility Analysis
Emissions Summary
Construction

Data for thesesummary tables were pulled from Tables: 2-6 to 2-14

Table 2-5: North American Cutoff Aerial Conveyor - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
	Aerial Conveyor						
Onsite Construction	1	1	6	0	0	0	375
Fugitive Emissions	-	-	-	-	11	6	-
Offsite (VCAPCD	0	0	2	0	0	0	83
Offsite (SCAQMD)	0	1	3	0	0	0	110
Offsite (Total)	0	1	3	0	0	0	111
Conveyor Total	1	2	9	0	0	0	486
Conveyor (VCAPCD)	1	2	8	0	11	6	458
Conveyro (SCAQMD)	1	2	9	0	11	6	485
	Rail Site						
Onsite Construction	1	19	34	0	0	0	412
Fugitive Emissions	-	-	-	-	9	5	-
Offsite (VCAPCD	0	0	1	0	0	0	38
Offsite (SCAQMD)	0	1	2	0	0	0	52
Offsite (Total)	0	1	2	0	0	0	53
Truck Site Total	1	19	36	0	0	0	465
Truck site (VCAPCD)	1	19	35	0	9	5	450
Trucksite (SCAQMD)	1	19	36	0	9	5	464
	Construction Total						
Total	2	21	45	0	20	11	951
Total (VCAPCD)	2	21	43	0	20	11	908
Total (SCAQMD)	2	21	45	0	20	11	949
	Tons/year						
Total	<1	3	6	<1	3	1	
Total (VCAPCD)	<1	3	6	<1	3	1	
Total (SCAQMD)	<1	3	6	<1	3	1	

Total Woolsey Cayon Operational Plus North American Cutoff Aerial Conveyor Construction

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Total	5	71	64	2	20	11	12,080
Total (VCAPCD)	2	22	44	0	20	11	1,123
Total (SCAQMD)	3	45	54	1	20	11	6,098
	Tons/year						
Total (VCAPCD)	1	9	8	<1	3	1	

SSFL Transportation Feasibility Analysis

Construction Emissions

Criteria Pollutant Emissions

Table 2-6: Edison Road Construction Emissions

		(lbs/day)					
	#	VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$
Rubber Tired Dozers	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes	2	0.139256	2.70916	4.68406	0.00633	0.0101	0.01
Graders	2	0.216353	3.48869	7.03146	0.013522	0.0216	0.022
Excavators	4	0.254138	9.1066	15.6718	0.021178	0.0339	0.034
Scrapers	4	0.994201	16.0315	32.3115	0.062138	0.0994	0.099
cranes	0	0	0	0	0	0	0
Forklifts	0	0	0	0	0	0	0
auger	0	0	0	0	0	0	0
Blast Regulator	0	0	0	0	0	0	0
Curb Gutter Cast	0	0	0	0	0	0	0
Railroad Tamper	0	0	0	0	0	0	0
Paver	0	0	0	0	0	0	0
Paving Equipment	1	0.050286	1.8019	3.10095	0.00419	0.0067	0.007
Compactor	1	0.00728	0.27605	0.24875	0.000303	0.0078	0.008
Roller compactor	0	0	0	0	0	0	0
welders	0	0	0	0	0	0	0
Water Truck	4	0.181705	4.36007	6.76315	0.012698	0.0048	0.005
Service Truck	0	0	0	0	0	0	0
Onsite Daily		1.843218	37.774	69.8117	0.12036	0.1844	0.184
Dump Truck (VCAPCD)	10	0.057136	1.371	2.12663	0.003993	0.0015	0.001
Dump Truck (SCAQMD)	10	0.098827	2.37139	3.6784	0.006907	0.0026	0.003
Dump Truck (Total)	10	0.100947	2.42226	3.7573	0.007055	0.0027	0.003
Worker (VCAPCD)	36	0.139014	0.27713	3.36949	0.00753	0.0121	0.011
Worker (SCAQMD	36	0.175676	0.35022	4.25812	0.009516	0.0153	0.014
Worker (Total)	36	0.17754	0.35394	4.30331	0.009617	0.0155	0.014
Offsite (VCAPCD)		0.19615	1.64813	5.49613	0.011523	0.0136	0.013
Offsite (SCAQMD		0.274503	2.72161	7.93653	0.016423	0.018	0.017

Offsite (Total)		0.278487	2.7762	8.06061	0.016672	0.0182	0.017
Total Daily		2.121706	40.5502	77.8723	0.137031	0.2025	0.201

Emissions determined by multiplying the numbe of each equipment type by the emissions per day for each piece of equipment (Table 1-3).

Table 2-7: Overland Conveyor Route

(lbs/day)

	#	VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$
Rubber Tired Dozers	2	0.278801	4.49566	9.06102	0.017425	0.0279	0.028
Tractors/Loaders/Backhoes	2	0.139256	2.70916	4.68406	0.00633	0.0101	0.01
Graders	1	0.108176	1.74434	3.51573	0.006761	0.0108	0.011
Excavators	0	0	0	0	0	0	0
Scrapers	0	0	0	0	0	0	0
cranes	2	0.193129	3.1142	6.27668	0.011829	0.0193	0.019
Forklifts	0	0	0	0	0	0	0
auger	0	0	0	0	0	0	0
Blast Regulator	0	0	0	0	0	0	0
Curb Gutter Cast	0	0	0	0	0	0	0
Railroad Tamper	0	0	0	0	0	0	0
Paver	0	0	0	0	0	0	0
Paving Equipment	0	0	0	0	0	0	0
Compactor	0	0	0	0	0	0	0
Roller compactor	0	0	0	0	0	0	0
welders	2	0.087619	3.32222	2.99365	0.003651	0.0935	0.093
Water Truck	0	0	0	0	0	0	0
Service Truck	4	0.044385	0.08848	1.07583	0.002404	0.0039	0.004
Onsite Daily		0.851366	15.4741	27.607	0.0484	0.1655	0.165
Dump Truck (VCAPCD)	0	0	0	0	0	0	0
Dump Truck (SCAQMD)	0	0	0	0	0	0	0
Dump Truck (Total)	0	0	0	0	0	0	0
Worker (VCAPCD)	12	0.046338	0.09238	1.12316	0.00251	0.004	0.004
Worker (SCAQMD	12	0.058559	0.11674	1.41937	0.003172	0.0051	0.005
Worker (Total)	12	0.05918	0.11798	1.43444	0.003206	0.0052	0.005
Offsite (VCAPCD)		0.046338	0.09238	1.12316	0.00251	0.004	0.004
Offsite (SCAQMD		0.058559	0.11674	1.41937	0.003172	0.0051	0.005

SSFL Transportation Feasibility Analysis

Construction Emissions

Criteria Pollutant Emissions

Offsite (Total)		0.05918	0.11798	1.43444	0.003206	0.0052	0.005
Total Daily		0.910545	15.592	29.0414	0.051606	0.1706	0.17

Emissions determined by multiplying the numbe of each equipment type by the emissions per day for each piece of equipment (Table 1-3).

Table 2-8: Truck Site Development

		(lbs/day)					
	#	VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$
Rubber Tired Dozers	0	0	0	0	0	0	0
Tractors/Loaders/Backhoes	3	0.208884	4.06374	7.02608	0.009495	0.0152	0.015
Graders	2	0.216353	3.48869	7.03146	0.013522	0.0216	0.022
Excavators	2	0.127069	4.5533	7.83591	0.010589	0.0169	0.017
Scrapers	1	0.24855	4.00787	8.07788	0.015534	0.0249	0.025
cranes	1	0.096564	1.5571	3.13834	0.005915	0.0097	0.01
Forklifts	0	0	0	0	0	0	0
auger	1	0.155908	2.51402	5.06702	0.009744	0.0156	0.016
Blast Regulator	0	0	0	0	0	0	0
Curb Gutter Cast	1	0.057778	2.07037	3.56296	0.004815	0.0077	0.008
Railroad Tamper	0	0	0	0	0	0	0
Paver	0	0	0	0	0	0	0
Paving Equipment	0	0	0	0	0	0	0
Compactor	2	0.014561	0.5521	0.4975	0.000607	0.0155	0.016
Roller compactor	2	0.117954	2.29474	3.96755	0.005362	0.0086	0.009
welders	0	0	0	0	0	0	0
Water Truck	0	0	0	0	0	0	0
Service Truck	20	0.221925	0.44242	5.37914	0.012021	0.0194	0.018
Onsite Daily		1.465546	25.5443	51.5838	0.087603	0.1551	0.154
Dump Truck (VCAPCD)	20	0.114272	2.742	4.25327	0.007986	0.003	0.003
Dump Truck (SCAQMD)	20	0.197655	4.74279	7.3568	0.013813	0.0052	0.005
Dump Truck (Total)	20	0.201895	4.84452	7.51461	0.014109	0.0054	0.005
Worker (VCAPCD)	30	0.115845	0.23094	2.80791	0.006275	0.0101	0.009
Worker (SCAQMD	30	0.146396	0.29185	3.54844	0.00793	0.0128	0.012
Worker (Total)	30	0.14795	0.29495	3.58609	0.008014	0.0129	0.012
Offsite (VCAPCD)		0.230117	2.97294	7.06118	0.014261	0.0131	0.012
Offsite (SCAQMD		0.344051	5.03464	10.9052	0.021743	0.018	0.017

SSFL Transportation Feasibility Analysis

Construction Emissions

Criteria Pollutant Emissions

Offsite (Total)		0.349845	5.13947	11.1007	0.022124	0.0183	0.017
Total Daily		1.81539	30.6838	62.6845	0.109727	0.1733	0.171

Emissions determined by multiplying the numbe of each equipment type by the emissions per day for each piece of equipment (Table 1-3).

Table 2-9: Rail Site Development

		(lbs/day)					
	#	VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$
Rubber Tired Dozers	2	0.278801	4.49566	9.06102	0.017425	0.0279	0.028
Tractors/Loaders/Backhoes	2	0.139256	2.70916	4.68406	0.00633	0.0101	0.01
Graders	1	0.108176	1.74434	3.51573	0.006761	0.0108	0.011
Excavators	1	0.063534	2.27665	3.91795	0.005295	0.0085	0.008
Scrapers	0	0	0	0	0	0	0
cranes	1	0.096564	1.5571	3.13834	0.005915	0.0097	0.01
Forklifts	1	0.034533	0.67182	1.16155	0.00157	0.0025	0.003
auger	0	0	0	0	0	0	0
Blast Regulator	1	0	0	0	0	0	0
Curb Gutter Cast	0	0	0	0	0	0	0
Railroad Tamper	1	0.076444	2.73926	4.71407	0.00637	0.0102	0.01
Paver	1	0.057778	2.07037	3.56296	0.004815	0.0077	0.008
Paving Equipment	0	0	0	0	0	0	0
Compactor	1	0.00728	0.27605	0.24875	0.000303	0.0078	0.008
Roller compactor	0	0	0	0	0	0	0
welders	0	0	0	0	0	0	0
Water Truck	0	0	0	0	0	0	0
Service Truck	0	0	0	0	0	0	0
Onsite Daily		0.862367	18.5404	34.0044	0.054783	0.0951	0.095
Dump Truck (VCAPCD)	2	0.011427	0.2742	0.42533	0.000799	0.0003	3E-04
Dump Truck (SCAQMD)	2	0.019765	0.47428	0.73568	0.001381	0.0005	5E-04
Dump Truck (Total)	2	0.020189	0.48445	0.75146	0.001411	0.0005	5E-04
Worker (VCAPCD)	10	0.038615	0.07698	0.93597	0.002092	0.0034	0.003
Worker (SCAQMD	10	0.048799	0.09728	1.18281	0.002643	0.0043	0.004
Worker (Total)	10	0.049317	0.09832	1.19536	0.002671	0.0043	0.004
Offsite (VCAPCD)		0.050042	0.35118	1.3613	0.00289	0.0037	0.003

SSFL Transportation Feasibility Analysis

Construction Emissions

Criteria Pollutant Emissions

Offsite (SCAQMD		0.068564	0.57156	1.91849	0.004025	0.0048	0.004
Offsite (Total)		0.069506	0.58277	1.94682	0.004082	0.0048	0.004
Total Daily		0.931873	19.1232	35.9513	0.058866	0.1	0.1

Emissions determined by multiplying the numbe of each equipment type by the emissions per day for each piece of equipment (Table 1-3).

Table 2-10: Aerial Converyor Construction

(lbs/day)

	#	VOC	NOx	CO	SO_x	PM_{10}	$PM_{2.5}$
Rubber Tired Dozers	2	0.278801	0.6267	2.83926	0.024737	0.0003	5E-06
Tractors/Loaders/Backhoes	0	0	0	0	0	0	0
Graders	0	0	0	0	0	0	0
Excavators	2	0.127069	0.28929	1.13343	0.006001	5E-05	4E-07
Scrapers	0	0	0	0	0	0	0
cranes	2	0.193129	0.30072	0.94376	0.005582	5E-05	5E-07
Forklifts	2	0.069065	0.0464	0.0539	8.46E-05	2E-07	5E-10
auger	0	0	0	0	0	0	0
Blast Regulator	0	0	0	0	0	0	0
Curb Gutter Cast	0	0	0	0	0	0	0
Railroad Tamper	0	0	0	0	0	0	0
Paver	0	0	0	0	0	0	0
Paving Equipment	0	0	0	0	0	0	0
Compactor	0	0	0	0	0	0	0
Roller compactor	0	0	0	0	0	0	0
welders	0	0	0	0	0	0	0
Water Truck	0	0	0	0	0	0	0
Service Truck	2	0.022192	0.04424	0.53791	0.001202	0.0019	0.002
Onsite Daily		0.690256	1.30735	5.50826	0.037607	0.0024	0.002
Dump Truck (VCAPCD)	2	0.011427	0.2742	0.42533	0.000799	0.0003	3E-04
Dump Truck (SCAQMD)	2	0.019765	0.47428	0.73568	0.001381	0.0005	5E-04
Dump Truck (Total)	2	0.020189	0.48445	0.75146	0.001411	0.0005	5E-04
Worker (VCAPCD)	22	0.084953	0.16936	2.05913	0.004602	0.0074	0.007
Worker (SCAQMD	22	0.107357	0.21402	2.60219	0.005815	0.0094	0.009
Worker (Total)	22	0.108497	0.21629	2.6298	0.005877	0.0095	0.009
Offsite (VCAPCD)		0.09638	0.44356	2.48446	0.0054	0.0077	0.007
Offsite (SCAQMD		0.127123	0.6883	3.33787	0.007197	0.0099	0.009
Offsite (Total)		0.128686	0.70075	3.38126	0.007288	0.01	0.009
Total Daily		0.818942	2.0081	8.88952	0.044895	0.0124	0.011

SSFL Transportation Feasibility Analysis
Construction Emissions
Fugitive Dust Emissions

Table 2-11: Onsite Fugitive Emissions

	Acres	#	Tons/truck	# Trucks	PM_{10}	$PM_{2.5}$
Maximum (lbs/day) - Edison Road Construction						
Scrapers/graders	6	N/A	N/A	N/A	2.36	0.25
Dozers/Excavators	N/A	4.00	N/A	N/A	11.16	6.13
Truck Loading	N/A	N/A	N/A	N/A	0.03	0.01
Total					***13.54***	***6.39***
Maximum (lbs/day) - Overland Conveyor Construction						
Scrapers/graders	1	N/A	N/A	N/A	0.39	0.04
Dozers/Excavators	N/A	2.00	N/A	N/A	5.58	3.07
Truck Loading	N/A	N/A	N/A	N/A	0.00	0.00
Total					***5.97***	***3.11***
Maximum (lbs/day) - Truck Site Construction						
Scrapers/graders	3	N/A	N/A	N/A	1.18	0.13
Dozers/Excavators	N/A	2.00	N/A	N/A	5.58	3.07
Truck Loading	N/A	N/A	N/A	N/A	0.05	0.02
Total					***6.81***	***3.21***
Maximum (lbs/day) - Rail Site Construction						
Scrapers/graders	1	N/A	N/A	N/A	0.39	0.04
Dozers/Excavators	N/A	3.00	N/A	N/A	8.37	4.60
Truck Loading	N/A	N/A	N/A	N/A	0.01	0.00
Total					***8.76***	***4.64***
Maximum (lbs/day) - Aerial Conveyor Construction						
Scrapers/graders	0	N/A	N/A	N/A	0.00	0.00
Dozers/Excavators	N/A	4.00	N/A	N/A	11.16	6.13
Truck Loading	N/A	N/A	N/A	N/A	0.01	0.00
Total					***11.16***	***6.13***

SSFL Transportation Feasibility Analysis

Construction Emissions

GHG Emissions

Table 2-12: GHG Emissions Edison Road and Overland Conveyor Route Construction

	Edison Road Construction				***Overland Conveyor Route***			
	#	CO_2	CH_4[1]	CO_2e	#	CO_2	CH_4[1]	CO_2e
Rubber Tired Dozers	0	0	0	0	2	0.805357	0.000243	0.8056
Tractors/Loaders/Backhoes	2	0.293635097	8.84E-05	0.293724	2	0.293635	8.84E-05	0.293724
Graders	2	0.627707594	0.000189	0.627897	1	0.313854	9.45E-05	0.313948
Excavators	4	0.973118714	0.000294	0.973413	0	0	0	0
Scrapers	4	2.831271706	0.000335	2.831607	0	0	0	0
cranes	0	0	0	0	2	0.555355	4.36E-05	0.555399
Forklifts	0	0	0	0	0	0	0	0
auger	0	0	0	0	0	0	0	0
Blast Regulator	0	0	0	0	0	0	0	0
Curb Gutter Cast	0	0	0	0	0	0	0	0
Railroad Tamper	0	0	0	0	0	0	0	0
Paver	0	0	0	0	0	0	0	0
Paving Equipment	1	0.191912409	1.62E-06	0.191914	0	0	0	0
Compactor	1	0.015639588	3.72E-05	0.015677	0	0	0	0
Roller compactor	0	0	0	0	0	0	0	0
welders	0	0	0	0	2	0.188221	0	0.188221
Water Truck	4	0.929531205	0.046477	0.976008	0	0	0	0
Service Truck	0	0	0	0	4	0.200199	0.01001	0.210209
Onstie Total				5.910238				2.3671
Dump Truck (VCAPCD)	10	0.292285923	0.014614	0.3069	0	0	0	0
Dump Truck (SCAQMD)	10	0.505561694	0.025278	0.53084	0	0	0	0
Dump Truck (Total)	10	0.516406225	0.02582	0.542227	0	0	0	0
Worker (VCAPCD)	36	0.627022266	0.031351	0.658373	12	0.209007	0.01045	0.219458
Worker (SCAQMD)	36	0.792386375	0.039619	0.832006	12	0.264129	0.013206	0.277335
Worker (Total)	36	0.80079472	0.04004	0.840834	12	0.266932	0.013347	0.280278
Total Daily				7.293299				2.647378
Days per year				260				243.75
Total Annual				1,896				645
Annual Onsite				1,537				577
Annual Offsite				360				68
Annual Offsite (VCAPCD)				251				53
Annual Offsite (SCAQMD)				354				68

[1] emissions are already in CO_2e format so columns add

SSFL Transportation Feasibility Analysis

Construction Emissions

GHG Emissions

Table 2-13: GHG Emissions Truck Site and Overland Rail Site Construction

	Truck Site Development				*Rail Site Development*			
	#	CO_2	CH_4[1]	CO_2e	#	CO_2	CH_4[1]	CO_2e
Rubber Tired Dozers	0	0	0	0	2	0.805357	0.805357	1.610713
Tractors/Loaders/Backhoes	3	0.440452646	0.000133	0.440585	2	0.293635	0.293635	0.58727
Graders	2	0.627707594	0.000189	0.627897	1	0.313854	0.313854	0.627708
Excavators	2	0.486559357	0.000147	0.486706	1	0.24328	0.24328	0.486559
Scrapers	1	0.707817926	8.38E-05	0.707902	0	0	0	0
cranes	1	0.277677615	2.18E-05	0.277699	1	0.277678	0.277678	0.555355
Forklifts	0	0	0	0	1	0.071995	0.071995	0.14399
auger	1	0.443881152	0	0.443881	0	0	0	0
Blast Regulator	0	0	0	0	1	0	0	0
Curb Gutter Cast	1	0.221256716	8.78E-05	0.221345	0	0	0	0
Railroad Tamper	0	0	0	0	1	0.294339	0.294339	0.588677
Paver	0	0	0	0	1	0.221257	0.221257	0.442513
Paving Equipment	0	0	0	0	0	0	0	0
Compactor	2	0.031279177	7.44E-05	0.031354	1	0.01564	0.01564	0.031279
Roller compactor	2	0.247187848	4.57E-05	0.247234	0	0	0	0
welders	0	0	0	0	0	0	0	0
Water Truck	0	0	0	0	0	0	0	0
Service Truck	20	1.0009934	0.05005	1.051043	0	0	0	0
Onstie Total				4.535645				5.074066
Dump Truck (VCAPCD)	20	0.584571847	0.029229	0.6138	2	0.058457	0.058457	0.116914
Dump Truck (SCAQMD)	20	1.011123388	0.050556	1.06168	2	0.101112	0.101112	0.202225
Dump Truck (Total)	20	1.03281245	0.051641	1.084453	2	0.103281	0.103281	0.206562
Worker (VCAPCD)	30	0.522518555	0.026126	0.548644	10	0.174173	0.174173	0.348346
Worker (SCAQMD)	30	0.66032198	0.033016	0.693338	10	0.220107	0.220107	0.440215
Worker (Total)	30	0.667328933	0.033366	0.700695	10	0.222443	0.222443	0.444886
Total Daily				6.320794				5.725514
Days per year				81.25				81.25
Total Annual				514				465
Annual Onsite				369				412
Annual Offsite				145				53
Annual Offsite (VCAPCD)				94				38
Annual Offsite (SCAQMD)				143				52

[1] emissions are already in CO_2e format so columns add

SSFL Transportation Feasibility Analysis

Construction Emissions

GHG Emissions

Table 2-14: GHG Emissions Aerial Conveyor Construction

	Aerial Converyor Construction			
	#	CO_2	CH_4[1]	CO_2e
Rubber Tired Dozers	2	0.805356739	0.000243	0.8056
Tractors/Loaders/Backhoes	0	0	0	0
Graders	0	0	0	0
Excavators	2	0.486559357	0.000147	0.486706
Scrapers	0	0	0	0
cranes	2	0.55535523	4.36E-05	0.555399
Forklifts	2	0.143990124	0.000267	0.144257
auger	0	0	0	0
Blast Regulator	0	0	0	0
Curb Gutter Cast	0	0	0	0
Railroad Tamper	0	0	0	0
Paver	0	0	0	0
Paving Equipment	0	0	0	0
Compactor	0	0	0	0
Roller compactor	0	0	0	0
welders	0	0	0	0
Water Truck	0	0	0	0
Service Truck	2	0.10009934	0.005005	0.105104
Onstie Total				2.097067
Dump Truck (VCAPCD)	2	0.058457185	0.002923	0.06138
Dump Truck (SCAQMD)	2	0.101112339	0.005056	0.106168
Dump Truck (Total)	2	0.103281245	0.005164	0.108445
Worker (VCAPCD)	22	0.383180274	0.019159	0.402339
Worker (SCAQMD)	22	0.484236118	0.024212	0.508448
Worker (Total)	22	0.489374551	0.024469	0.513843
Total Daily				2.719355
Days per year				178.75
Total Annual				486
Annual Onsite				375
Annual Offsite				111
Annual Offsite (VCAPCD)				83
Annual Offsite (SCAQMD)				110

[1] emissions are already in CO_2e format so columns add

Emissions determined by multiplying the numbe of each equipment type by the emissions per day for each piece of equipment (Table 1-8).

Transportation Feasibility Study
Air Quality and GHG
Operational Emissions Assumptions

SSFL Transportation Feasibility Analysis
Overall Feasibility Study
Operational

96	Trucks per day (AQ)
80	Trucks per day (GHG)
48	Trucks per day Backfill (for rail transport of contaminated soils)
21	days per month operation
0.05	CH_4 percentage based on CO_2
113	Distance to clean fill sites (uses average disance for non-hazardous disposal sites for all of the RP's. 115 miles for Boeing, 125 miles for DOE, and 98 miles for NASA)
1,550	rail miles to Oregon for 691,170 CY of hazardous waste
	0.82 Miles within Ventura County
	111 Miles within SCAQMD
	1,438.18 Rest
900	rail miles to Utah for 1,363,300 CY of non-hazardous waste
	0.82 Miles within Ventura County
	111 Miles within SCAQMD
	788.18 Rest
734	CY per day to rail site
70	gondola cars
4,900	CY of Material per train
7,350	tons of material
41	ABC cars
3,760	CY of Material per train
5,650	tons of material
1 or 2	trains per week

SSFL Transportation Feasibility Analysis
Overall Feasibility Study
Operational

Notes:

1 Operational Emissions for trucks calculated using the "mitigated" scenario and assues 2014 or newer trucks.

2 In order to show a true comparison between alternatives, the total emissions (including all emissions outside the VCAPCD and SCAQMD jurrisdictions) are shown for the trucking routes. The EIR analysis shows only the emissions from within CA and predominantly within the VCAPCD and SCAQMD, therefore the totals presented in the Feasibility Study will not necessarily match totals presented in the EIR Analysis. Additionally, the EIR analysis shows onsite equipment emissions and worker travel, which for operational activities would not change regardless of the alternative implemented and therefore are not included as part of the Feasibility Study.

3 Emissions from haul trucks for the "Program" level analysis was used for trucking comparisons.

4 For Truck emissions associated with the non-Woolsey Canyon Road Alternatives, a portion of the emissions from the Project Site along Woolsey Canyon Roady to the I-118 at the CA-27 exit are removed from the Woolsey Canyon Rd Emissions estimates and replaced with emissions from the Truck Site to the intersection of the I-118 and CA-27 as all disposal sites used for emissions determinations, are located east of this intersection.

5 Assumes trains go from the site to Colton prior to heading north out of state. SCAQMD district ends at approximately Cajon Junction.

6 Assumes all trains in one year go to Oregon (worse case scenario). Also assumes 1 train per week. Assumes an average of 24 mph for the train.[1].

1	train per week	
52	weeks	
7,350	tons per train	
64.58333	hours per trip to Oregon	2.690972 days
576	Miles per day (24 hours/24 mph)	

https://www.statista.com/statistics/547745/average-train-speed-union-pacific-railroad/

SSFL Transportation Feasibility Analysis
Overall Feasibility Study
Emissions Per Disposal Truck

Emissions from Project site at Woolsey Canyon to the intersection of I-118 and CA-27.

Miles one way:	8.665	Total	0.42	VCAPCD	8.245	SCAQMD
Ave round trip miles:	17.33	Total	0.84	VCAPCD	16.49	SCAQMD

Table 3-1 Woolsey Canyon Emission Factors

lbs/mile						MT/mile	
VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
1.64E-04	1.78E-03	2.26E-03	3.53E-05	1.04E-05	9.91E-06	1.58E-03	7.89E-05

Source: Emfac 2014 - See Tables 3-11 through 3-14.

Table 3-2 Woolsey Canyon Emissions per Truck

	lbs/mile						MT/mile	
	VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
0.84 Miles VCAPCD	1.38E-04	1.50E-03	1.90E-03	2.96E-05	8.70E-06	8.32E-06	1.33E-03	6.63E-05
16.49 Miles SCAQMD	2.71E-03	2.94E-02	3.73E-02	5.82E-04	1.71E-04	1.63E-04	2.60E-02	1.30E-03

Emissions per truck are determined by multiplying the emission factors in Table 3-1 by the number of miles associated with each air district.

Emissions from Truck Site to the intersection of I-118 and CA-27.

Miles one way:	11.31	Total	9.53	VCAPCD	1.78	SCAQMD
Round Trip Miles:	22.62	Total	19.06	VCAPCD	3.56	SCAQMD

Table 3-3 Truck Route Emission Factors

lbs/mile						MT/mile	
VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
1.08E-04	9.42E-04	1.62E-03	3.53E-05	9.69E-06	9.27E-06	1.44E-03	7.20E-05

Source: Emfac 2014 - See Tables 3-11 through 3-14.

SSFL Transportation Feasibility Analysis
Overall Feasibility Study
Emissions Per Disposal Truck

Table 3-4 Truck Route Emission per Truck

	lbs/mile						MT/mile	
	VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
19.06 Miles VCAPCD	2.07E-03	1.80E-02	3.10E-02	6.72E-04	1.85E-04	1.77E-04	2.75E-02	1.37E-03
3.56 Miles SCAQMD	3.86E-04	3.35E-03	5.78E-03	1.26E-04	3.45E-05	3.30E-05	5.13E-03	2.56E-04

Emissions per truck are determined by multiplying the emission factors in Table 3-3 by the number of miles associated with each air district.

Table 3-5 Truck Emissions Per Day and Year

	lbs/day						MT/year	
	VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
	From Woolsey Canyon to I-118 @ CA-27							
	VCAPCD							
96 Trucks/day	1.33E-02	1.44E-01	1.83E-01	2.84E-03	8.35E-04	7.99E-04	-	-
803 Trucks/day	-	-	-	-	-	-	2.67E+01	1.34E+00
	SCAQMD							
96 Trucks/day	2.60E-01	2.82E+00	3.59E+00	5.58E-02	1.64E-02	1.57E-02	-	-
803 Trucks/day	-	-	-	-	-	-	5.25E+02	2.62E+01
	lbs/day						**MT/mile**	
	VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
	From Truck Site to I-118 @ CA-27							
	VCAPCD							
96 Trucks/day	1.99E-01	1.72E+00	2.97E+00	6.45E-02	1.77E-02	1.70E-02	-	-
803 Trucks/day	-	-	-	-	-	-	5.54E+02	2.77E+01
	SCAQMD							
96 Trucks/day	3.71E-02	3.22E-01	5.55E-01	1.21E-02	3.31E-03	3.17E-03	-	-
803 Trucks/day	-	-	-	-	-	-	1.03E+02	5.17E+00

Emissions per day and per year were determined by multiplying the emissions per truck (Tables 3-2 and 3-4) by the number of trucks per day/per year.

SSFL Transportation Feasibility Analysis
Overall Feasibility Study
Emissions Per Backfill Truck

Emissions Estimates for Backfill Trucks

Table 3-6 Backfill Trucks Average Mileage

	one way				Round
	Boeing	DOE	NASA	Average	Trip
VCAPCD	10.29	0.42	10.29	7	14
SCAQMD	67.58	67.58	53.58	62.9133	125.827
Other	37.13	57	34.13	42.7533	85.5067
Total	115	125	98	112.667	225.333

Distance within air district is based on the location of the assumed landfill.

Table 3-7 Emission Factors for Backfill Trucks

lbs/mile						MT/mile	
VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
1.64E-04	1.78E-03	2.26E-03	3.53E-05	1.04E-05	9.91E-06	1.58E-03	7.89E-05

Source: Emfac 2014 - See Tables 3-11 through 3-14.

Table 3-8 Emissions per Backfill Truck

	lbs/truck						MT/mile	
	VOC	**CO**	**NOx**	**SOx**	**PM10**	**PM2.5**	**CO_2**	**CH_4**
14 Miles VCAPCD	2.30E-03	2.50E-02	3.17E-02	4.94E-04	1.45E-04	1.39E-04	2.21E-02	1.10E-03
125.83 Miles SCAQMD	2.07E-02	2.24E-01	2.85E-01	4.44E-03	1.30E-03	1.25E-03	1.99E-01	9.93E-03
85.51 Miles Other	1.41E-02	1.53E-01	1.94E-01	3.02E-03	8.85E-04	8.47E-04	1.35E-01	6.75E-03

Emissions per truck are determined by multiplying the emission factors in Table 3-7 by the number of miles associated with each air district (Table 3-6).

Santa Susana Truck and Conveyor Feasibility Study
GHG Emissions from Conveyor Operations

Table 3-9: Surface Conveyor

440,160 kWh/month
5,281,920 Kwh/year
5,282 MWh/yr

	Emission Factor (lbs/MWh)[1]	Emissions (Metric Ton)	Global Warming Potential	CO_2e (MT/Yr)	Total CO_2e (MT/Yr)
CO_2	630.89	1,511.51	1	1,511.51	
CH_4	0.029	0.07	25	1.74	
N_2O	0.006	0.01	298	4.28	
Total					1,517.53

1 Intensity Factors taken from CalEEMod.
kWh/month provided as part of the project description

Table 3-10: Aerial Conveyor

58,968 kWh/month
707,616 Kwh/year
708 MWh/yr

	Emission Factor (lbs/MWh)[1]	Emissions (Metric Ton)	Global Warming Potential	CO_2e (MT/Yr)	Total CO_2e (MT/Yr)
CO_2	630.89	202.50	1	202.50	
CH_4	0.029	0.01	25	0.23	
N_2O	0.006	0.00	298	0.57	
Total					203.30

kWh/mont Intensity Factors taken from CalEEMod.
kWh/month provided as part of the project description

SSFL Transportation Feasibility Study
EMFAC 2014 Emission Factors

2014 Vehicle Fleet

Table 3-11 EMFAC 2014 Emission Factors by Speed and County

gr/mile								
County	**Speed**	**VOC**	**CO**	**Nox**	**Sox**	**PM10**	**PM2.5**	**CO2**
Ventura	55	0.02	0.14	0.39	0.02	0.004	0.004	1330.63
	30	0.11	1.09	1.48	0.02	0.005	0.005	1670.02
	35	0.07	1.25	0.97	0.02	0.005	0.004	1668.07
	40	0.06	0.66	0.75	0.02	0.004	0.004	1539.66
	45	0.04	0.46	0.58	0.02	0.004	0.004	1475.92
	15	0.23	8.52	5.49	0.02	0.006	0.006	2582.03
Los Angeles	55	0.02	0.14	0.39	0.02	0.004	0.004	1339.74
	30	0.11	0.88	1.52	0.02	0.005	0.005	1641.92
	35	0.08	0.99	1.02	0.02	0.005	0.005	1622.68
	40	0.06	0.62	0.76	0.02	0.004	0.004	1531.19
	45	0.04	0.42	0.59	0.02	0.004	0.004	1466.28
lbs/mile								**MT/mile**
County	**Speed**	**VOC**	**CO**	**Nox**	**Sox**	**PM10**	**PM2.5**	**CO2**
Ventura	55	5.24E-05	3.09E-04	8.60E-04	3.53E-05	8.32E-06	7.96E-06	1.33E-03
	30	2.34E-04	2.40E-03	3.26E-03	3.53E-05	1.13E-05	1.08E-05	1.67E-03
	35	1.65E-04	2.76E-03	2.14E-03	3.53E-05	1.01E-05	9.70E-06	1.67E-03
	40	1.26E-04	1.46E-03	1.65E-03	3.53E-05	9.70E-06	9.28E-06	1.54E-03
	45	9.32E-05	1.02E-03	1.28E-03	3.53E-05	9.13E-06	8.73E-06	1.48E-03
	15	5.05E-04	1.88E-02	1.21E-02	3.53E-05	1.34E-05	1.28E-05	2.58E-03
Los Angeles	55	5.24E-05	3.09E-04	8.61E-04	3.53E-05	8.32E-06	7.96E-06	1.34E-03
	30	2.39E-04	1.94E-03	3.36E-03	3.53E-05	1.15E-05	1.10E-05	1.64E-03
	35	1.71E-04	2.18E-03	2.24E-03	3.53E-05	1.04E-05	9.99E-06	1.62E-03
	40	1.28E-04	1.37E-03	1.68E-03	3.53E-05	9.85E-06	9.42E-06	1.53E-03
	45	9.44E-05	9.36E-04	1.30E-03	3.53E-05	9.26E-06	8.86E-06	1.47E-03
Maximum Emission Factor By Speed								
		lbs/mile						**MT/mile**
	Speed	**VOC**	**CO**	**NOx**	**SOx**	**PM_{10}**	**$PM_{2.5}$**	**CO_2**
	30	2.39E-04	2.40E-03	3.36E-03	3.53E-05	1.15E-05	1.10E-05	1.67E-03
	35	1.71E-04	2.76E-03	2.24E-03	3.53E-05	1.04E-05	9.99E-06	1.67E-03
	40	1.28E-04	1.46E-03	1.68E-03	3.53E-05	9.85E-06	9.42E-06	1.54E-03
	45	9.44E-05	9.36E-04	1.30E-03	3.53E-05	9.26E-06	8.86E-06	1.47E-03
	55	5.56E-05	3.28E-04	9.48E-04	3.53E-05	9.00E-06	8.61E-06	1.34E-03

Emissions taken from EMFAC 2014

EMFAC2014 (v1.0.7) Emission Rates
Region Type: County
Region: Ventura, Los Angeles
Calendar Year: 2017, model year 2014
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

SSFL Transportation Feasibility Study
EMFAC 2014 Emission Factors

2014 Vehicle Fleet

Table 3-12 Haul Routes

Route				Speed	Miles
1,2	Woolsey Canyon Road	7.88 meters		30	2.11
1	Valley Circle Blvd	7.65	north of woolsey	30	0.21
2	Roscoe Blvd	19.33		40	2.33
2	Topanga Canyon Blvd	24.12	north of Roscoe	45	1.7
1	Lake Manor Dr	6.67		30	1.33
2	Valley Circle Blvd	6.93	north of Roscoe	35	1.11
1	Plummer St	13.52		35	0.87
1,2	Topanga Canyon Blvd	25.42	north of Plummer	45	2.44

Distance by Speed		
MPH	Route 1	Route 2
30	3.99	2.45
35	0.87	1.11
40		2.33
45	2.44	4.14
Total	7.3	10.03

Distance based on anticipated haul routes as detailed in text. Speed determined from Google Earth.

Table 3-13 Emission Factor Determination: Woolsey Canyon Route from Site to I-118 @ CA 27

Route		lbs/mile						MT/mile
		VOC	CO	NOx	SOx	PM_{10}	$PM_{2.5}$	CO_2
	Route 1	1.83E-04	1.95E-03	2.54E-03	3.53E-05	1.06E-05	1.02E-05	1.60E-03
	Route 2	1.46E-04	1.62E-03	1.99E-03	3.53E-05	1.01E-05	9.64E-06	1.56E-03
	Average	1.64E-04	1.78E-03	2.26E-03	3.53E-05	1.04E-05	9.91E-06	1.58E-03
Average Miles		8.665						

Weighted averages are determined by multiplying the distance per speed (Table 3-12) by the maximum emission factor by speed (Table 3-11).

Table 3-14 Emission Factor Determination: Truck Site 1 to I-118 @ CA 27

Speed	Distance (miles)	ROG	CO	NOX	SOx	PM10	PM2.5	CO2
		lb/mile (Within Ventura County)						
30 MPH	3	7.18E-04	7.19E-03	1.01E-02	1.06E-04	3.45E-05	3.30E-05	5.01E-03
45 MPH	1.21	1.14E-04	1.13E-03	1.57E-03	4.27E-05	1.12E-05	1.07E-05	1.77E-03
55 MPH	7.1	3.95E-04	2.33E-03	6.73E-03	2.50E-04	6.39E-05	6.11E-05	9.51E-03
Total	11.31	1.23E-03	1.07E-02	1.84E-02	3.99E-04	1.10E-04	1.05E-04	1.63E-02
Average lb/mile		1.08E-04	9.42E-04	1.62E-03	3.53E-05	9.69E-06	9.27E-06	1.44E-03

Weighted averages are determined by multiplying the distance per speed by the maximum emission factor by speed (Table 3-11).

Transportation Feasibility Study
Air Quality and GHG
Operational Truck Emissions Calculations

SSFL Transportation Feasibility Analysis

Emissions Summary

Operational Emissions

Data for thesesummary tables were pulled from Tables: 4-6 to 4-13, 5-1 and 5-2.

Table 4-1: Woolsey Canyon Road Truck Route - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Truck Route (Total)	3	50	19	2	0	0	11,128
Truck Route (VCAPCD)	0	1	1	0	0	0	216
Truck Route (SCAQMD)	1	24	9	1	0	0	5,149
Train Emissions	0	0	0	0	0	0	0
Converyor Emissions	-	-	-	-	-	-	0
Total	3	50	19	2	0	0	11,128
Total (VCAPCD)	0	1	1	0	0	0	216
Total (SCAQMD)	1	24	9	1	0	0	5,149
	Tons/year						
Total	<1	7	2	<1	<1	<1	
Total (VCAPCD)	<1	<1	<1	<1	<1	<1	
Total (SCAQMD)	<1	3	1	<1	<1	<1	

Table 4-2: Edison Road Truck Route - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Truck Route (Total)	2	37	14	1	0	0	11,184
Truck Route (VCAPCD)	0	2	2	0	0	0	384
Truck Route (SCAQMD)	1	11	3	0	0	0	2,353
Train Emissions	0	0	0	0	0	0	0
Converyor Emissions	-	-	-	-	-	-	0
Total	2	37	14	1	0	0	11,184
Total (VCAPCD)	0	2	2	0	0	0	384
Total (SCAQMD)	1	11	3	0	0	0	2,353
	Tons/year						
Total	<1	5	2	<1	<1	<1	
Total (VCAPCD)	<1	<1	<1	<1	<1	<1	
Total (SCAQMD)	<1	1	<1	<1	<1	<1	

SSFL Transportation Feasibility Analysis
Emissions Summary
Operational Emissions

Data for thesesummary tables were pulled from Tables: 4-6 to 4-13, 5-1 and 5-2.

Table 4-3: Edison Road Overland Conveyor - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Truck Route (Total)	2	37	14	1	0	0	11,184
Truck Route (VCAPCD)	0	2	2	0	0	0	384
Truck Route (SCAQMD)	1	11	3	0	0	0	2,353
Train Emissions	0	0	0	0	0	0	0
Converyor Emissions	-	-	-	-	-	-	1,518
Total	2	37	14	1	0	0	12,701
Total (VCAPCD)	0	2	2	0	0	0	1,902
Total (SCAQMD)	1	11	3	0	0	0	2,353
	Tons/year						
Total	<1	5	2	<1	<1	<1	
Total (VCAPCD)	<1	<1	<1	<1	<1	<1	
Total (SCAQMD)	<1	1	<1	<1	<1	<1	

Table 4-4: North American Cutoff Overland Conveyor - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Truck Route	2	19	24	0	0	0	3,777
Truck Route (VCAPCD)	0	1	2	0	0	0	290
Truck Route (SCAQMD)	1	11	14	0	0	0	2,603
Train Emissions (Total)	146	2,342	545	38	93	91	13,937
Train (VCAPCD)	0	3	1	0	0	0	7
Train (SCAQMD)	28	451	105	7	18	17	998
Converyor Emissions	-	-	-	-	-	-	2,049
Total (lbs/day)	176	2,816	675	46	112	108	19,762
VCAPCD	0	5	2	0	0	0	2,346
SCAQMD	29	462	119	8	18	18	3,601
	Tons/year						
Total	23	366	88	6	15	14	
VCAPCD	<1	1	<1	<1	<1	<1	
SCAQMD	4	60	15	1	2	2	

SSFL Transportation Feasibility Analysis
Emissions Summary
Operational Emissions

Data for thesesummary tables were pulled from Tables: 4-6 to 4-13, 5-1 and 5-2.

Table 4-5: North American Cutoff Aerial Conveyor - Emissions Summary

	Lbs/Day						*MT/year*
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**	**CO_2e**
Truck Route	2	19	24	0	0	0	3,777
Truck Route (VCAPCD)	0	1	2	0	0	0	290
Truck Route (SCAQMD)	1	11	14	0	0	0	2,603
Train Emissions (Total)	146	2,342	545	38	93	91	13,937
Train (VCAPCD)	0	3	1	0	0	0	7
Train (SCAQMD)	28	451	105	7	18	17	998
Converyor Emissions	-	-	-	-	-	-	274
Total (lbs/day)	177	2828	691	47	112	108	21,886
VCAPCD	0	5	2	0	0	0	571
SCAQMD	29	462	119	8	18	18	3875
	Tons/year						
Total	23	368	90	6	15	14	
VCAPCD	<1	1	<1	<1	<1	<1	
SCAQMD	4	60	15	1	2	2	

SSFL Transportation Feasibility Analysis
Operational Haul Truck Route Emissions
Criteria Pollutant Emissions

Table 4-6 Truck Emissions - Woolsey Canyon Road Truck Route

	Lbs/Day					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Offsite VCAPCD	0.09	1.42	0.59	0.05	0.01	0.01
Offsite SCAQMD	1.41	23.69	8.88	0.84	0.22	0.21
Offsite (Other)	1.50	25.11	9.47	0.89	0.23	0.22
Total	2.99	50.23	18.94	1.78	0.46	0.44
	Tons/year					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Total	<1	7	2	<1	<1	<1

Source: Table 7-1 from the AQ Appendix

Table 4-7: **Change in Truck Emissions (difference between routes)**

	Lbs/Day					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
	VCAPCD					
Original Offsite VCAPCD	0.04	0.71	0.30	0.02	0.01	0.01
Woolsey Canyon to I-118	6.63E-03	7.19E-02	9.13E-02	1.42E-03	4.17E-04	3.99E-04
Truck Route 1 to I-118	9.93E-02	8.62E-01	1.49E+00	3.23E-02	8.87E-03	8.48E-03
Total New Offsite VCAPCD	1.36E-01	1.50E+00	1.69E+00	5.46E-02	1.46E-02	1.39E-02
	SCAQMD					
Original Offsite SCAQMD	0.71	11.85	4.44	0.42	0.11	0.10
Woolsey Canyon to I-118	1.30E-01	1.41E+00	1.79E+00	2.79E-02	8.19E-03	7.84E-03
Truck Route 1 to I-118	1.85E-02	1.61E-01	2.78E-01	6.03E-03	1.66E-03	1.58E-03
Total New Offsite SCAQMD	5.94E-01	1.06E+01	2.93E+00	4.00E-01	1.02E-01	9.72E-02

Sources: Tables 3-5 and 4-6

SSFL Transportation Feasibility Analysis
Operational Haul Truck Route Emissions
Criteria Pollutant Emissions

Table 4-8 Haul Emissions: Edison Road Truck Route & Edison Road Overland Conveyor

	Lbs/Day					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Woolsey Canyon Route						
Offsite (VCAPCD)	0.04	0.71	0.30	0.02	0.01	0.01
Offsite (SCAQMD)	0.71	11.85	4.44	0.42	0.11	0.10
Total	0.75	12.56	4.74	0.45	0.11	0.11
Edison Road Route						
Offsite (VCAPCD)	0.14	1.50	1.69	0.05	0.01	0.01
Offsite (SCAQMD)	0.59	10.60	2.93	0.40	0.10	0.10
Total	0.73	12.10	4.62	0.45	0.12	0.11
(Other)	1.50	25.11	9.47	0.89	0.23	0.22
Grand Total	2.23	37.21	14.09	1.35	0.34	0.33
	Tons/year					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Total	<1	5	2	<1	<1	<1

*Assumes half of the trucks stay on Woolsey Canyon Route and half take Ediston Road.
Taken from Table 4-7

Talbe 4-9: Haul Emissions: North American Cutoff Overland Or Aerial Conveyor

	Lbs/Day					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Offsite (VCAPCD)	0.11	1.20	1.52	0.02	0.01	0.01
Offsite (SCAQMD)	0.99	10.78	13.68	0.21	0.06	0.06
Offsite (Other)	0.67	7.32	9.30	0.14	0.04	0.04
Total	1.78	19.30	24.50	0.38	0.11	0.11
	Tons/year					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Total	<1	3	3	<1	<1	<1

*No Disposal Emissions, the emissions presented here represent backfill emissions.

Source: Table 3-8 times the number of trucks per day

SSFL Transportation Feasibility Analysis
Operational Haul Truck Route Emissions
GHG Emissions

Table 4-10: Truck Emissions - Woolsey Canyon Road Truck Route - GHG

	MT CO_2e / year		
	CO_2	CH_4	CO_2e
VCAPCD	205	10	216
SCAQMD	4,904	245	5,149
Other	5,489	274	5,763
Program Analysis Total	10,598	530	11,128
Source:	Tables 7-4, 7-6, and 7-8 from the GHG Appendix		

Table 4-11: **Change in Truck Emissions (difference between routes) - GHG**

	MT CO_2e / year		
	CO_2	CH_4	CO_2e
	VCAPCD		
Original Offsite VCAPCD	103	5	108
Woolsey Canyon to I-118	13	1	14
Truck Route 1 to I-118	277	14	291
Total New Offsite VCAPCD	366	18	384
	SCAQMD		
Original Offsite SCAQMD	2,452	123	2,575
Woolsey Canyon to I-118	262	13	276
Truck Route 1 to I-118	52	3	54
Total New Offsite SCAQMD	2,241	112	2,353

Sources: Tables 3-5 and 4-106

SSFL Transportation Feasibility Analysis
Operational Haul Truck Route Emissions
GHG Emissions

Table 4-12: Haul Emissions: Edison Road Truck Route & Edison Road Overland Conveyor - GHG

	MT CO_2e / year		
	CO_2	CH_4	CO_2e
Woolsey Canyon Route			
Offsite (VCAPCD)	103	5	108
Offsite (SCAQMD)	2,452	123	2,575
Total	2,555	128	2,682
Edison Road Route			
Offsite (VCAPCD)	366	18	384
Offsite (SCAQMD)	2,241	112	2,353
Total	2,608	130	2,738
(Other)	5,489	274	5,763
Grand Total	10,651	533	11,184

*Assumes half of the trucks stay on Woolsey Canyon Route and half take Ediston Road.

Taken from Table 4-11

Table 4-13: Haul Emissions: North American Cutoff Overland Or Aerial Conveyor - GHG

	MT CO_2e / year		
	CO_2	CH_4	CO_2e
VCAPCD	276	14	290
SCAQMD	2,479	124	2,603
Other	842	42	884
Total	3,597	180	3,777

*No Disposal Emissions, the emissions presented here represent backfill emissions.

Source: Table 3-8 times the number of trucks per year

Transportation Feasibility Study
Air Quality and GHG
Operational Train Emissions Calculations

SSFL Transportation Feasibility Analysis

Operational Train Emissions

Criteria Pollutant Emissions

Woolsey Canyon Road Truck Route
or Edison Road Truck Route
or Edison Road Overland Conveyor

No Train Emissions as the all soil is disposed of by truck.

North American Cutoff Overland Conveyor
or North American Cutoff Aerial Conveyor

0.82	miles within Venture County	2.69	days per train
111	Miles within SCAQMD	104	trains per year
464.18	Remaining miles per day	280	days per year

Table 5-1: Train Emissions

	Lbs/Day					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Offsite (VCAPCD)	0.21	3.33	0.78	0.05	0.13	0.13
Offsite (SCAQMD)	28.14	451.32	105.03	7.42	18.02	17.48
Offsite (Other)	117.68	1887.31	439.23	31.02	75.35	73.09
Total	146.03	2341.96	545.04	38.49	93.50	90.69
	Tons/year					
	VOC	**NOx**	**CO**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Total	20	328	76	5	13	13

Emissions determined by multiplying emission factors (Table: 1-11) by the miles per air district.

SSFL Transportation Feasibility Analysis

Operational Train Emissions

GHG Emissions

Woolsey Canyon Road Truck Route
or Edison Road Truck Route
or Edison Road Overland Conveyor

No Train Emissions as the all soil is disposed of by truck.

North American Cutoff Overland Conveyor
or North American Cutoff Aerial Conveyor

0.82 miles within Venture County
111 Miles within SCAQMD
1,438.18 Remaining miles per day
52 trains per year (scenario 1)

Table 5-2: Train Emissions - GHG

	MT CO_2e / year		
	CO_2	CH_4	CO_2e
VCAPCD	7	0	7
SCAQMD	951	48	998
Other	12,316	616	12,932
Total	13,273	664	13,937

Emissions determined by multiplying emission factors (Table: 1-11) by the miles per air district.

APPENDIX D

Energy Usage Data

Santa Susana Field Laboratory
Fuel Conversion - Unmitigated

Construction Fuel Consumption Summary - Initial Programs

	gallons/year		Constructin Length
	Diesel	**Gas**	**Combined Total**
Initial Clean-up - 48 Trucks per day - by Activity			
Area IV	542,768	7,136	
Liquid O_2	142,680	7,136	
Demolition- Boeing	0	0	
Demolition - DOE	66,989	16,414	
TTF - Boeing	53,179	5,709	
RMHF/HWMF - DOE	96,802	14,273	
Total	***902,419***	***50,669***	***953,088***
Initial Clean-up - 48 Trucks per day - by RP			
Boeing	*53,179*	*5,709*	
DOE	*706,560*	*37,823*	
NASA	*142,680*	*7,136*	
Initial Clean-up - 96 trucks per day - by Activity			
Area IV	1,037,817	7,136	
Liquid O2	237,640	7,136	
Demolition- Boeing	0	0	
Demolition - DOE	100,560	16,414	
TTF - Boeing	67,557	5,709	
RMHF/HWMF - DOE	116,003	14,273	
Total	***1,559,577***	***50,669***	***1,610,246***
Initial Clean-up - 96 Trucks per day - by RP			
Boeing	*67,557*	*5,709*	
DOE	*1,254,380*	*37,823*	
NASA	*237,640*	*7,136*	

Initial Clean-up - 96 Trucks per day - by source

	gallons/year	
	Diesel	**Gas**
Construction Equipment	197,542	0
Haul Trucks	324,219	0
Worker Commute	0	43,532

Assumptions

10.15	diesel	KgCO2/gallon[1]
8.91	gasoline	KgCO2/gallon[1]
1	MT = 1,000 kilograms	

Construction diesel — Used for trucks (haul and vendor) and off-road equipment
gasoline — worker vehicles
*Mitigated and unmitigated emissions will be the same as vehicle use does not change.

1 U.S. Energy Information Administration Voluntary Reportion of Greenhouse Gases

Santa Susana Field Laboratory

Fuel Conversion - Initial Clean-up by Activity (gal/year) - Unmitigated

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2/gal$	Gallons	Total Diesel (gal)	Total Gas (gal)
Area IV						
48 Trucks						
Off-road	484	diesel	10.15	47,719		
Haul	5,025	diesel	10.15	495,049		
Worker	64	gasoline	8.91	7,136	542,768	7,136
96 Trucks						
Off-road	484	diesel	10.15	47,719		
Haul	10,049	diesel	10.15	990,098		
Worker	63.59	gasoline	8.91	7,136	1,037,817	7,136
Liquid O_2						
48 Trucks						
Off-road	484	diesel	10.15	47,719		
Haul	964	diesel	10.15	94,960		
Worker	64	gasoline	8.91	7,136	142,680	7,136
96 Trucks						
Off-road	484	diesel	10.15	47,719		
Haul	1,927.69	diesel	10.15	189,921		
Worker	63.59	gasoline	8.91	7,136	237,640	7,136
Demo - Boeing						
48 Trucks						
Off-road	0	diesel	10.15	0		
Haul	0	diesel	10.15	0		
Worker	0	gasoline	8.91	0	0	0
96 Trucks						
Off-road	0	diesel	10.15	0		
Haul	0	diesel	10.15	0		
Worker	0	gasoline	8.91	0	0	0
Demo - DOE						
48 Trucks						
Off-road	339	diesel	10.15	33,419		
Haul	341	diesel	10.15	33,571		
Worker	146	gasoline	8.91	16,414	66,989	16,414
96 Trucks						
Off-road	339	diesel	10.15	33,419		
Haul	681	diesel	10.15	67,141		
Worker	146	gasoline	8.91	16,414	100,560	16,414
TTF - Boeing						
48 Trucks						
Off-road	394	diesel	10.15	38,801		
Haul	146	diesel	10.15	14,378		
Worker	51	gasoline	8.91	5,709	53,179	5,709
96 Trucks						
Off-road	394	diesel	10.15	38,801		
Haul	292	diesel	10.15	28,756		
Worker	51	gasoline	8.91	5,709	67,557	5,709

Santa Susana Field Laboratory

Fuel Conversion - Initial Clean-up by Activity (gal/year) - Unmitigated

RMHF/HWMF - DOE						
48 Trucks						
Off-road	788	diesel	10.15	77,602		
Haul	195	diesel	10.15	19,200		
Worker	127	gasoline	8.91	14,273	96,802	14,273
96 Trucks						
Off-road	788	diesel	10.15	77,602		
Haul	390	diesel	10.15	38,400		
Worker	127	gasoline	8.91	14,273	116,003	14,273

Santa Susana Field Laboratory
Fuel Conversion - Unmitigated

Construction Fuel Consumption Summary - Overall Cleanup

	gallons/year		Constructin Length
	Diesel	**Gas**	**Combined Total**
	Program - 80 truks per day		
Boeing	410,467	106,398	
DOE	351,524	35,509	
NASA	594,748	35,509	
M&M	0	79,778	
Total	***1,356,739***	***257,194***	***1,613,933***
	Program - 96 truks per day		
Boeing	474,418	106,398	
DOE	411,883	35,509	
NASA	703,752	35,509	
M&M	0	79,778	
Total	***1,590,053***	***257,194***	***1,847,247***
	Program - 48 trucks per day		
Boeing	282,564	106,398	
DOE	230,806	35,509	
NASA	376,740	35,509	
M&M	0	79,778	
Total	***890,110***	***257,194***	***1,147,304***
	Program - 80 truks per day		
Construction Equipmer	190,167	0	
Haul Trucks	1,166,572	0	
Worker Commute	0	177,416	
M&M Commute	0	79,778	
	Program - 96 truks per day		
Construction Equipment	190,167	0	
Haul Trucks	1,399,886	0	
Worker Commute	0	177,416	
M&M Commute	0	79,778	

Santa Susana Field Laboratory

Fuel Conversion - Program - (gal/year)- Unmitigated

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Boeing						
48 Trucks						
Off-road	921	diesel	10.15	90,708.71		
Haul	1,947	diesel	10.15	191,854.84		
Worker	948	gasoline	8.91	106,397.69	282,563.55	106,397.69
DOE						
48 Trucks						
Off-road	505	diesel	10.15	49,729.15		
Haul	1,838	diesel	10.15	181,076.75		
Worker	316	gasoline	8.91	35,509.17	230,805.90	35,509.17
NASA						
48 Trucks						
Off-road	505	diesel	10.15	49,729.15		
Haul	3,319	diesel	10.15	327,011.35		
Worker	316	gasoline	8.91	35,509.17	376,740.50	35,509.17
Maintenance and Monitoring						
48 Trucks						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	711	gasoline	8.91	79,778.25	0	79,778

Santa Susana Field Laboratory

Fuel Conversion - Program - (gal/year) - Unmitigated

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Boeing						
80 Trucks						
Off-road	921	diesel	10.15	90,708.71		
Haul	3,246	diesel	10.15	319,758.07		
Worker	948	gasoline	8.91	106,397.69	410,467	106,398
DOE						
80 Trucks						
Off-road	505	diesel	10.15	49,729.15		
Haul	3,063	diesel	10.15	301,794.58		
Worker	316	gasoline	8.91	35,509.17	351,524	35,509
NASA						
80 Trucks						
Off-road	505	diesel	10.15	49,729.15		
Haul	5,532	diesel	10.15	545,018.92		
Worker	316	gasoline	8.91	35,509.17	594,748	35,509
Maintenance and Monitoring - Boeing						
80 Trucks						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	711	gasoline	8.91	79,778.25	0	79,778

Santa Susana Field Laboratory
Fuel Conversion - Unmitigated

Construction Fuel Consumption Summary - Existing Conditions

	gallons/year		Constructin Length
	Diesel	**Gas**	**Combined Total**
		Existing	
Boeing	0	23,097	
DOE	0	1,480	
NASA[1]	0	4,441	
Total	***0***	***29,019***	***29,019***

1 NASA was not active at the time of the NOP therefore emissions are not part of the Emissions.

Santa Susana Field Laboratory
Existing Activities (gal/year)

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Boeing						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	206	gasoline	8.91	23,097.00	0.00	23,097.00
DOE						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	13	gasoline	8.91	1,480.48	0.00	1,480.48
NASA						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	40	gasoline	8.91	4,441.44	0.00	4,441.44

Santa Susana Field Laboratory
Fuel Conversion - Mitigated

Construction Fuel Consumption Summary - Initial Projects

	gallons/year		Constructin Length
	Diesel	**Gas**	**Combined Total**
Initial Clean-up - 48 Trucks per day - by Activity			
Area IV	399,026	7,136	
Liquid O_2	114,109	7,136	
Demolition - Boeing	0	0	
Demolition - DOE	56,068	16,414	
TTF - Boeing	47,787	5,709	
RMHF/HWMF - DOE	113,481	14,273	
Total	***730,471***	***50,669***	***781,140***
Initial Clean-up - 48 Trucks per day - by RP			
Boeing	*47,787*	*5,709*	
DOE	*568,575*	*37,823*	
NASA	*114,109*	*7,136*	
Initial Clean-up - 96 trucks per day - by Activity			
Area IV	751,586	7,136	
Liquid O2	181,753	7,136	
Demolition - Boeing	0	0	
Demolition - DOE	79,971	16,414	
TTF - Boeing	58,027	5,709	
RMHF/HWMF - DOE	151,868	14,273	
Total	***1,223,205***	***50,669***	***1,273,873***
Initial Clean-up - 48 Trucks per day - by RP			
Boeing	*58,027*	*5,709*	
DOE	*983,424*	*37,823*	
NASA	*181,753*	*7,136*	

Initial Clean-up - 96 Trucks per day - by source

	gallons/year	
	Diesel	**Gas**
Construction Equipment	191,273	0
Haul Trucks	280,346	0
Worker Commute	0	43,532

Assumptions

10.15	diesel	KgCO2/gallon[1]
8.91	gasoline	KgCO2/gallon[1]
1	MT = 1,000 kilograms	

Construction	diesel	Used for trucks (haul and vendor) and off-road equipment
	gasoline	worker vehicles

*Mitigated and unmitigated emissions will be the same as vehicle use does not change.

1 U.S. Energy Information Administration Voluntary Reportion of Greenhouse Gases

Santa Susana Field Laboratory

Fuel Conversion - Initial Clean-up by Activity (gal/year) - Mitigated

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Area IV						
48 Trucks						
Off-road	472	diesel	10.15	46,465.53		
Haul	3,578	diesel	10.15	352,559.99		
Worker	64	gasoline	8.91	7,136.45	399,026	7,136
96 Trucks						
Off-road	472	diesel	10.15	46,465.53		
Haul	7,157	diesel	10.15	705,119.98		
Worker	63.59	gasoline	8.91	7,136.45	751,586	7,136
Liquid O_2						
48 Trucks						
Off-road	472	diesel	10.15	46,465.53		
Haul	687	diesel	10.15	67,643.90		
Worker	64	gasoline	8.91	7,136.45	114,109	7,136
96 Trucks						
Off-road	472	diesel	10.15	46,465.53		
Haul	1,373.17	diesel	10.15	135,287.81		
Worker	63.59	gasoline	8.91	7,136.45	181,753	7,136
Demo - Boeing						
48 Trucks						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	0	gasoline	8.91	0.00	0	0
96 Trucks						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	0	gasoline	8.91	0.00	0	0
Demo - DOE						
48 Trucks						
Off-road	326	diesel	10.15	32,165.09		
Haul	243	diesel	10.15	23,902.77		
Worker	146	gasoline	8.91	16,413.84	56,068	16,414
96 Trucks						
Off-road	326	diesel	10.15	32,165.09		
Haul	485	diesel	10.15	47,805.54		
Worker	146	gasoline	8.91	16,413.84	79,971	16,414
TTF - Boeing						
48 Trucks						
Off-road	381	diesel	10.15	37,547.38		
Haul	104	diesel	10.15	10,239.81		
Worker	51	gasoline	8.91	5,709.16	47,787	5,709
96 Trucks						
Off-road	381	diesel	10.15	37,547.38		
Haul	208	diesel	10.15	20,479.62		
Worker	51	gasoline	8.91	5,709.16	58,027	5,709

Santa Susana Field Laboratory

Fuel Conversion - Initial Clean-up by Activity (gal/year) - Mitigated

RMHF/HWMF - DOE						
48 Trucks						
Off-road	762	diesel	10.15	75,094.75		
Haul	390	diesel	10.15	38,386.70		
Worker	127	gasoline	8.91	14,272.90	113,481	14,273
96 Trucks						
Off-road	762	diesel	10.15	75,094.75		
Haul	779	diesel	10.15	76,773.39		
Worker	127	gasoline	8.91	14,272.90	151,868	14,273

Santa Susana Field Laboratory
Fuel Conversion - Mitigated

Construction Fuel Consumption Summary - Overall Cleanup

	gallons/year		Constructin Length
	Diesel	**Gas**	**Combined Total**
	Program - 80 truks per day		
Boeing	373,827	106,398	
DOE	319,182	35,509	
NASA	556,227	35,509	
M&M	0	79,778	
Total	***1,249,235***	***257,194***	***1,506,429***
	Program - 96 truks per day		
Boeing	537,601	106,398	
DOE	373,323	35,509	
NASA	657,777	35,509	
M&M	0	79,778	
Total	***1,568,700***	***257,194***	***1,825,895***
	Program - 48 trucks per day		
Boeing	259,075	106,398	
DOE	210,899	35,509	
NASA	353,126	35,509	
M&M	0	79,778	
Total	***823,100***	***257,194***	***1,080,295***
	Program - 80 truks per day		
Construction Equipment	183,898	0	
Haul Trucks	1,065,337	0	
Worker Commute	0	177,416	
M&M Commute	0	79,778	
	Program - 96 truks per day		
Construction Equipment	183,898	0	
Haul Trucks	1,278,404	0	
Worker Commute	0	177,416	
M&M Commute	0	79,778	

Santa Susana Field Laboratory

Fuel Conversion - Program - (gal/year) - Mitigated

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Boeing						
48 Trucks						
Off-road	883	diesel	10.15	86,947.44		
Haul	1,747	diesel	10.15	172,127.70		
Worker	948	gasoline	8.91	106,397.69	259,075.14	106,397.69
DOE						
48 Trucks						
Off-road	492	diesel	10.15	48,475.39		
Haul	1,649	diesel	10.15	162,423.77		
Worker	316	gasoline	8.91	35,509.17	210,899.17	35,509.17
NASA						
48 Trucks						
Off-road	492	diesel	10.15	48,475.39		
Haul	3,092	diesel	10.15	304,650.72		
Worker	316	gasoline	8.91	35,509.17	353,126.11	35,509.17
Maintenance and Monitoring						
98 Trucks						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	711	gasoline	8.91	79,778.25	0	79,778

Santa Susana Field Laboratory

Fuel Conversion - Program - (gal/year) - Mitigated

	Total CO_2 MT/yr	Fuel Type	Factor $KGCO_2$/gal	Gallons	Total Diesel (gal)	Total Gas (gal)
Boeing						
80 Trucks						
Off-road	883	diesel	10.15	86,947.44		
Haul	2,912	diesel	10.15	286,879.50		
Worker	948	gasoline	8.91	106,397.69	373,827	106,398
DOE						
80 Trucks						
Off-road	492	diesel	10.15	48,475.39		
Haul	2,748	diesel	10.15	270,706.29		
Worker	316	gasoline	8.91	35,509.17	319,182	35,509
NASA						
80 Trucks						
Off-road	492	diesel	10.15	48,475.39		
Haul	5,154	diesel	10.15	507,751.20		
Worker	316	gasoline	8.91	35,509.17	556,227	35,509
Maintenance and Monitoring - Boeing						
80 Trucks						
Off-road	0	diesel	10.15	0.00		
Haul	0	diesel	10.15	0.00		
Worker	711	gasoline	8.91	79,778.25	0	79,778

APPENDIX E

Noise Calculations

OFF-SITE TRAFFIC NOISE LEVELS

Project Name: Santa Susana Field Laboratory EIR

Background Information

Model Description:	FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Analysis Scenario(s):	Existing (2015) Traffic Noise Levels
Source of Traffic Volumes:	KOA Corporation, Santa Susana Field Laboratory Transportation Feasibility Analysis, December 2016.
Community Noise Descriptor:	L_{dn}: _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Name Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	Peak Hou dB(A) L_{eq}	24-Hour dB(A) CNEL
Future (2034) Without Project Traffic Conditions - Alternative 2													
Tapo Canyon Road													
B/t Royal Ave. & Los Angeles Ave.	No sensitive land uses	4	16	1,498	14,983	45	100	0	0	2.2%	0.8%	67.3	66.5
B/t Los Angeles Ave. & Cochran St.	SFR Residential	4	16	1,495	14,945	45	100	0	0	2.2%	0.8%	67.3	66.5
B/t Cochran St. & SR-118 FWY	No sensitive land uses	4	15	3,089	30,894	40	100	0	0	2.2%	0.8%	69.1	68.4

[1] Due to the varying distances of noise-sensitive uses to the roadway centerline, a reference distance of 100 feet is used for this analysis.

OFF-SITE TRAFFIC NOISE LEVELS

Project Name: Santa Susana Field Laboratory EIR

Background Information

Model Description:	FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Analysis Scenario(s):	Future (2038) Without Project Traffic Noise Levels
Source of Traffic Volumes:	KOA Corporation, Santa Susana Field Laboratory Transportation Feasibility Analysis, December 2016.
Community Noise Descriptor:	L_{dn}: _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Name Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hou dB(A) L_{eq}	24-Hour dB(A) CNEL
Future (2034) Without Project Traffic Conditions - Alternative 2													
Tapo Canyon Road													
B/t Royal Ave. & Los Angeles Ave.	No sensitive land uses	4	16	1,843	18,430	45	100	0	0	2.2%	0.8%	68.2	67.4
B/t Los Angeles Ave. & Cochran St.	SFR Residential	4	16	1,838	18,383	45	100	0	0	2.2%	0.8%	68.2	67.4
B/t Cochran St. & SR-118 FWY	No sensitive land uses	4	15	3,800	37,999	40	100	0	0	2.2%	0.8%	70.0	69.3

[1] Due to the varying distances of noise-sensitive uses to the roadway centerline, a reference distance of 100 feet is used for this analysis.

OFF-SITE TRAFFIC NOISE LEVELS

Project Name: Santa Susana Field Laboratory EIR

Background Information

Model Description:	FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Analysis Scenario(s):	Future (2038) With Project Traffic Noise Levels
Source of Traffic Volumes:	KOA Corporation, Santa Susana Field Laboratory Transportation Feasibility Analysis, December 2016.
Community Noise Descriptor:	L_{dn}: _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition Roadway Name Roadway Segment	Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor[1]	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hou dB(A) L_{eq}	24-Hour dB(A) CNEL
Future (2034) Without Project Traffic Conditions - Alternative 2													
Tapo Canyon Road													
B/t Royal Ave. & Los Angeles Ave.	No sensitive land uses	4	16	1,903	18,910	45	100	0	0	2.2%	0.8%	68.3	67.5
B/t Los Angeles Ave. & Cochran St.	SFR Residential	4	16	1,898	18,863	45	100	0	0	2.2%	0.8%	68.3	67.5
B/t Cochran St. & SR-118 FWY	No sensitive land uses	4	15	3,860	38,479	40	100	0	0	2.2%	0.8%	70.1	69.3

[1] Due to the varying distances of noise-sensitive uses to the roadway centerline, a reference distance of 100 feet is used for this analysis.